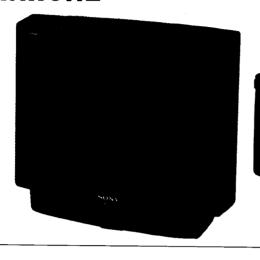
### KV-M2531D **RM-816**

### **SERVICE MANUAL**

AEP Model

Chassis No. SCC-F07J-A



AE-1C CHASSIS

MODELS OF TH	IE SAME SERIES
KV-M2531D	KV-E2521D/E2921D
KV-M2521D	KV-A2911D
KV-A2111D/A2511D	KV-C2121D

### **SPECIFICATIONS**

Television system

Colour system PAL/SECAM

Channel coverage

Picture tube

VHF: E2-E12 UHF: E21-E69

CABLE TV: S1-S41 Hi-Black Trinitron tube

Approx. 65 cm

(Approx. 59 cm picture measured

diagonally)

B/G/H

110°-degree deflection

Inputs Ö-121-pin connector:

CENELEC standard including

RGB input.

Front: ⊕ 3

O Video input phono jack O Audio input phono jack S Video input 4pin DIN

Y: 1Vp-p±3dB 75ohm

C: 0. 3Vp-p±3dB 75ohm

Outputs 21-pin connector: CENELEC standard

Earphones jack: minijack

Sound output

10W (Music)

Power consumption 86Wh

**Dimensions** Approx.  $577 \times 523 \times 491 \text{mm} \text{ (w/h/d)}$ 

Weight Approx. 34kg

Supplied accessories RM-816 Remote Commander (1)

IEC designation R6 batteries (2)

[RM-816]

Remote control system infrared control

Power requirements 3V dc

2 batteries IEC designation

R6 (size AA)

Dimensions

Approx.  $75 \times 221 \times 23 \text{mm} \text{ (w/h/d)}$ 

Weight

Approx. 230g (including batteries)

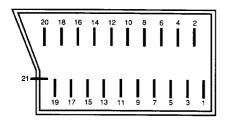
Accessories supplied IEC designation R6 Commander

Design and specifications are subject to change without notice.



TRINITRON®COLOR TV SONY

### 21 - pin Euro Connector Configuration



PIN	SIGNAL	SPECIFICATION
1	Audio output	0.5Vrms/1kilohm or less
2	Audio input	0.5Vrms/10kilohm or more
3	Audio output	0.5Vrms/1kilohm or less
4	Earth ( audio )	
5	Earth (B - input)	
6	Audio input	0.5Vrms/10kilohms or more
7	B - input	0.7Vp-p/75ohms
8	Function switching	9.5V to 12V
9	Earth ( G - input )	
10		
11	G - input	0.7Vp-p/75ohms
12		
13	Earth (R - input)	
14	Earth ( blanking )	
15	R - input	0.7Vp-p/75ohms
16	Fast blanking	1V to 3V / 75ohms
17	Earth ( video )	
18	Earth ( fast blanking )	
19	Video output	1Vp-p / 75ohms
20	Video input	1Vp-p / 75ohms
21	Screening plug	

### 4 pin connector [⊕]

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input 1V ± 3d	b 75ohm, positive Sync 0.3V
4	C (S signal) input 0.3V ± 3	3db 75ohm positive

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	1-2.	Presetting	4	4-2.	B Board Adjustments	
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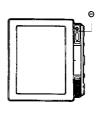
### **SAFETY RELATED COMPONENT WARNING!!**

COMPONENTS IDENTIFIED BY SHADING AND MARKED WITH A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

# 1-1. SWITCHING ON/OFF

# 1-2. PRESETTING

After you have completed the basic preparation, your TV is ready to be connected to the mains power supply (220/240V AC, 50Hz).



How to turn the TV on

n Result	The TV will turn on.  Note: If the screen remains blank, the TV may be in the standby mode.  TV may be in the standby mode.  Fress ○ on the commander to switch it on.
Action	ns © on

### How to turn the TV off

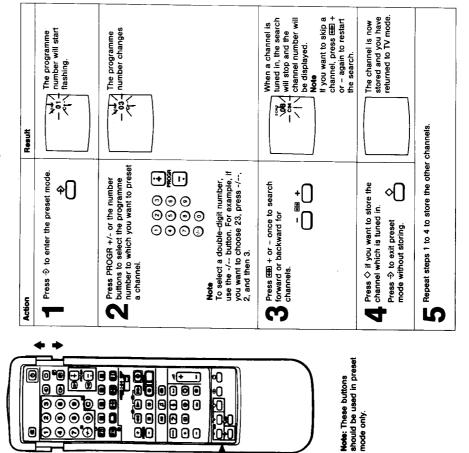
A Temporarily	
Press Φ to enter standby mode.	The TV will be in standby. To return to the TV mode press ○
B Completely	
Press © on the TV.	The TV will turn off.

Before viewing the TV programmes you need to preset TV channels. There are 60 spaces available for storing these channels.

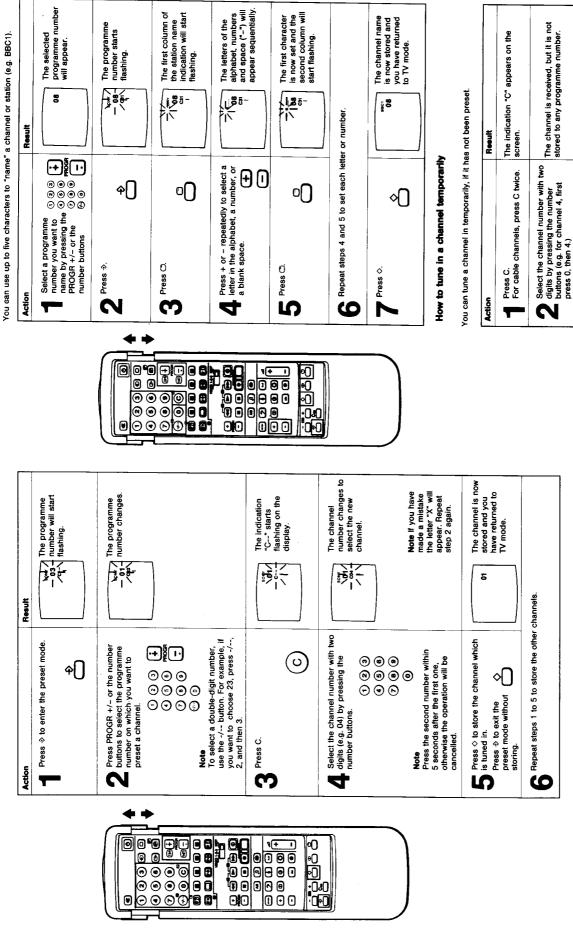
TV stations broadcast their channels at certain frequencies. You gust preset these channels to programme numbers on the TV. If you are unfamiliar with the channel numbers of the stations you wish to preset, use. How to Preset Channels Automatically: If you are familiar with the channel numbers refer to "How to Preset TV Channels Directly."

Slide open the full function side of the Remote Commander to reveal preset buttons.

# How to preset channels automatically

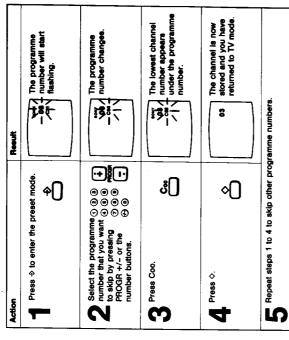


## How to preset TV channels directly



### BASIC TV OPERATION <del>1</del>-3

Using the PROGR +/- buttons you can skip unused programme channel numbers. However, the skipped numbers may still be called up using the number buttons.



### How to Fine Tune Manually

if the picture is distorted, you can fine tune the channel manually,

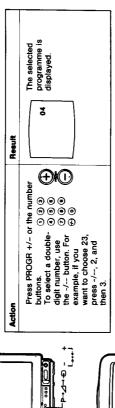
Action	Result
Press GB +/- repeatedly until the picture looks normal.	The indication ← F → appears on the screen.
Press ⇒ to enter the preset mode.	The programme number starts flashing.
Press ♦.	The fine tuning is stored.

**Note:** Press  $\pm$  on door to open.

This section introduces you to the basic control functions which are available on the simple side of the remote commander.

### How to Select Programmer

Before you can select programmes make sure that you have preset channels, (refer to pages 5 and 6).



### How to Adjust the Volume

Press $\Delta + /-$ .  The volume markers will appear and are adjusted accordingly.	Action	Result
7	Press ⊿ +/	
		7

## How to Use Additional Functions

 $\bigoplus$ 

 $\bigoplus$ 

# How to operate with the buttons on the TV

You can also select programmes and adjust the volume using the  $P_{-} \angle J \rightarrow \oplus$  and  $\rightarrow \bullet \leftarrow +/-$  buttons on the front of the TV. For operation, first press the  $P_{-} \angle J \rightarrow \oplus$  button repeatedly so that the P (for programme) or  $\angle J$  (for volume) indication appears on the screen, and then adjust with the  $\rightarrow \bullet \leftarrow +/-$  buttons.

Note: To restore factory set level press → · ← +/- together

### Basic teletext operation

The © button to view teletext.
The O button to request substitles (p.888).
The O button to return to TV mode.
For details about teletext operation, refer to page 12.

## How to view the video input picture

Press €. To return to the TV mode, press ○. For further details, refer to page 15.

### TELETEXT OPERATION <u>수</u>

This section shows you how to use convenient features, to adjust the picture and sound to your taste, enter a name for a channel to be displayed on the screen, and fine tune a channel. Use the full-function side of the Remote Commander.

# How to use on-screen display and special sound features

You can enjoy the following convenient features.

How to	Action	To resume normal pictura/sound
Display on-screen indications	Press @	Indications disappear after 5 seconds.
Display programme number	Press @twice.	Press ( twice again
Mute the sound	Press 4.	Press of again.
Set the sound to music listening position	Press ∏.	Press ∏ again.
Request the time	Press @.	Press @ again.

## How to adjust the picture and sound

Although the picture and sound have been adjusted at the factory, you might want to adjust them to your own taste. To do this, please follow the steps.

Result: (- ←→ +)		Less ←→ More	Less ←→ More	Dark ← Bright		Less ←→ More	Less ←→ More
Then:		<b>(</b> +)	)(	)		Ð	0
Press:		•	•	٥		۶.	•
To Adjust:	Picture:	Colour Intensity	Picture Contrast	Brightness	Sound:	Base	Treble

Note: Some of the functions on the remote commander are not available for use with this TV set.

To reset the picture and sound to factory set levels press ----

### How to View the Teletext

TV stations broadcast teletext programmes via the TV channels. To use the full teletext features, use the buttons indicated in green on the full function side of the Remote Commander.

The channel changes on the screen. Select the channel which carries the teletext service you wish to see. Action T

If the teletext signal is not broadcast, then p100 is displayed.

INDEX

Press .

0 \( \tau \) \( \tau \

S

The numbers are entered on the screen. The requested page will appear in a few seconds. Input three digits for the page number using the number buttons.

If you make a mistake, type in any three digits, then re-enter the correct page number.

3

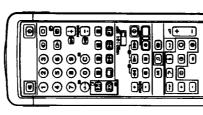
To return to the TV mode. Press ○.

To change the teletext channels First press  $\Box$  to return to the TV mode, then repeat steps 1 to 3.

Note if the signal of the TV channel is weak, teletext errors may often occur.

# How to Use the Advanced Features of Teletext

How to	Action	Result (On-screen display)
Request the index page.	Press @ (INDEX).	The index page appears.
Request the subtitle page (p888).	Press C.	The subtitle page is displayed (p888).
Access the next or preceding page. Press <sup>™</sup> (PAGE +) or <sup>™</sup> (PAGE -).	Press 🖲 (PAGE +) or 😅 (PAGE -).	P201 The next or preceding page appears.



### The HOLD symbol ( ) appears on the screen and the The TV program is displayed, and the requested page number and other teletext data appear at the top of the screen. superimposed on the TV chosen sub-page is held until you The information is revealed. The requested page is displayed. The upper half is enlarged. The teletext displays are programmes. The numbers are entered. idy,©ew p<sub>i</sub>,0% Result P201 When the requested page has been captured, the page number remains and the other data Press ⊕ once to enlarge the upper half. Press twice to enlarge the lower half. Press again to restore the normal To return to the normal teletext display press @ again. Press ® once if you are in text mode, or press ® twice If in 4. Press to view this page. To resume normal teletext reception, press ® . Press again to conceal the information. 1. Request a new page. 2. Press ® (TEXT CL). Press @ (REVEAL). Press @ (HOLD). disappears. TV mode. display. Prevent a teletext page from being updated or changed. Superimpose the teletext display on the TV programme. Watch the TV programme while waiting for a requested page to be displayed. Reveal concealed information (e.g. answers to a quiz). Enlarge the teletext display.

Some of the features may not be available depending on the Teletext service.

# 1-6. OPERATION CONNECTIONS/OPERATIONS

You can connect video equipment such as VTRs and video disc players to the TV.

# How to connect video equipment to the TV

This TV has 2 different input connectors and 1 output signal

Connector	Acceptable input signal	Available output signal
<b>©</b>	Normal audio/video and RGB signal	Audio/video from TV tuner
-59, €] ⊕ on the front	Normal audio/video and S video signal	No outputs

# Video equipment Video equipment Commercially available Cod equipment available Connector 21-pin connector

# Connecting video equipment temporarily It is convenient to use the front connectors when connecting equipment such as a video camère recorder. Note: Press \_ on door of TV to open. Normal only VTR, 8mm video Camer recorder video disc player, etc. 'Use VC-15/VC-15FV connecting cable (not supplied) for connecting S video connecting

# To connect a VTR using the 'T terminal Connect the aerial output of the VTR to the aerial terminal 'T of the TV.

Connecting a computer with RGB output

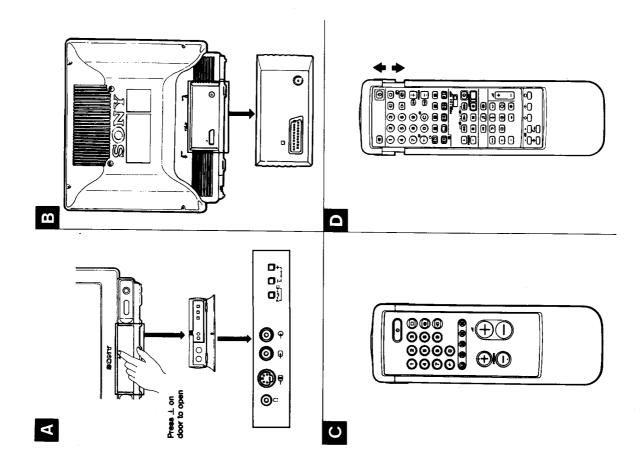
If you connect your VTR to the aerial terminal of the TV, it is recommended that programme number 0 is used to tune in the video signal.

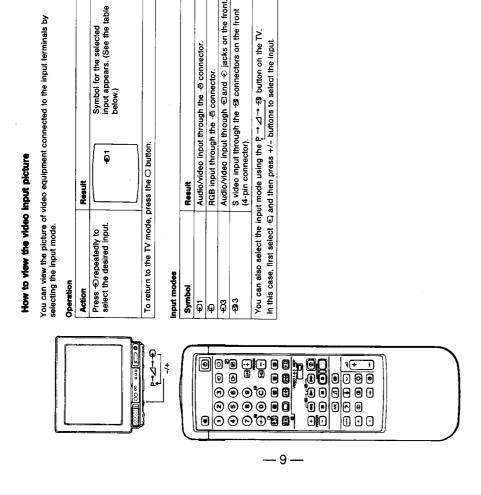
### S video input (Y/C input)

Commercially available cord equipped with a 21-pin connector

Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with S video input through which these separated signals can be input directly.

If the picture or the sound is distorted Move the VTR away from the TV.





Symbol for the selected input appears. (See the table below.)

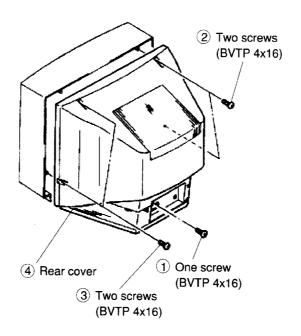
This section briefly describes the buttons and controls on the TV set and on the Remote Commander.

For more information, refer to the pages given next to each description.

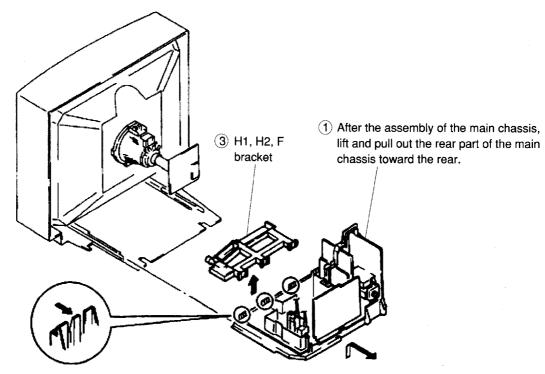
A IV set - Front	ront		TOY (	3	Remote Commander - full function sid	Inction al
Sign	Name	Refer to page	Sign	_	Name	Refer to pa
Θ	Main power switch	S	끃		Mute on/off button	=
Đ	Standby indicator	5	Đ		Standby button	2
C	Headphones jack (stereo minijack)	14	1,2,3,4,5,	4,5,	Number buttons	7
⊕ <b>⊕</b>	Input jacks (S- video/video/audio)	14	<b>P</b>		input mode selector	15
Q-7	Function selector (Programme/	10	0		TV power on/TV mode selector button	ĸ
	volume/input)		(1)		Teletext button	12
+ - -	Adjustment buttons for	0			Music button	=
	function selector		/- 		Double-digit entering button	7
TV set - R	Rear		O		Direct channel entering button	7, 8
Sign	Name	Refer to page	0		Request time display	11
iĢ	21-pin Euro-AV connector (RGB/	15		(E)(E)	Teletext operation buttons	12, 13
	video input, TV output				Fastext buttons	14
F	Aerial terminal (IEC type)	4	<b>(</b>		On-screen display button	11
			*		Picture and sound adjustment reset button	10
e Remote Co	Remote Commander - simp	simple side	4	-/	Volume control	10
Sign	Name	Refer to page	-/+ SOBO	1	Programme selector	6, 10
φ	Input mode selector	15	<b>1</b>		Picture and sound	=
(h)	Teletext button	0	-/+		Somo	
	Fastext buttons	4	VIDEO 1/2/3, MDP	3, MDP	Video equipment selector	11
0	TV mode selector	5	7	4	Vidos conjument	
Đ	Standby button	4	•	<b>`</b>	video equipment operation buttons	17
1,2,3,4,5, 6,7,8,9, and 0	Number buttons	7, 10	00 	_	Programme number clear button	6
/	Couble-digit entering button	7, 10	•		Channel preset	6 9
<b>△</b>	Volume control button	10	+	+	Tuning buttons	9
-/+ 9U8d	Programme	6. 10	<b>\Q</b>		Channel store button	6 9
	selector		0		Station label button	60

### SECTION 2 DISASSEMBLY

### 2-1. REAR COVER REMOVAL

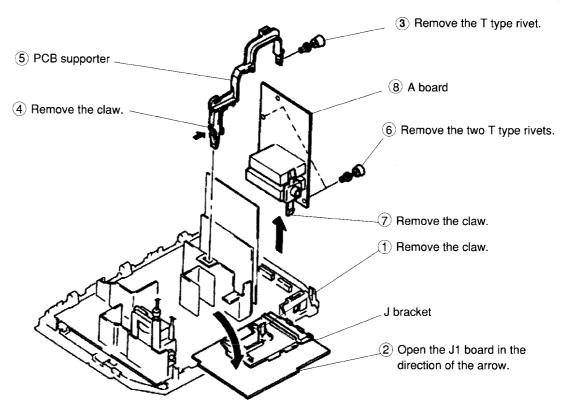


### 2-2. CHASSIS ASSEMBLY REMOVAL

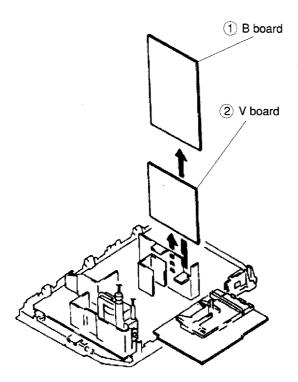


2 Push the three claws of the main chassis in the direction of the arrow and remove the H1, H2, F bracket upwards.

### 2-3. A AND J1 BOARDS REMOVAL



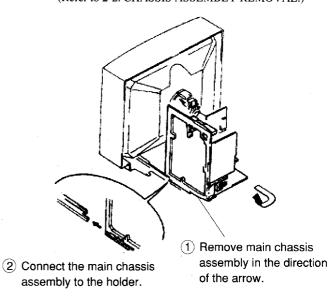
### 2-4. B AND V BOARDS REMOVAL



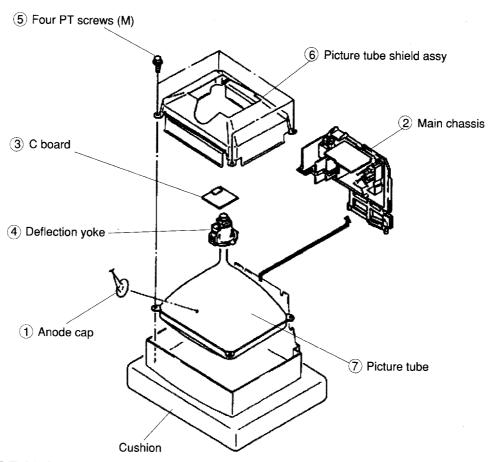
Note: 10 pin extension cable (S-0945-001-0)

### 2-5. SERVICE POSITION

\* Remove the H1, H2, F bracket from the main chassis assembly and then perform the following servicing. (Refer to 2-2. CHASSIS ASSEMBLY REMOVAL.)



### 2-6. PICTURE TUBE REMOVAL



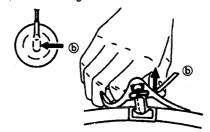
### REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

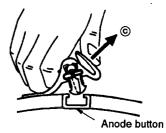
### REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



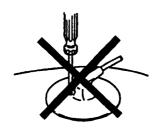
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑥.

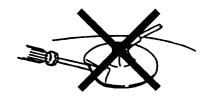


③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⑥.

### • HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
  - A metal fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





### SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way:
  - ① Contrast ......80%

(or remote control normal)

**☼** Brightness ......50%

- Carry out the following adjustments in this order:
- 1. Beam landing
- 2. Convergence
- 3. Focus
- 4. White balance

Note: Testing equipment required

- 1. Color bar/pattern generator
- 2. Degausser
- 3. DC power supply
- 4. Digital multimeter
- 5. Oscilloscope

### Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

### 3-1. BEAM LANDING

1. Input the white signal with the pattern generator.

Contrast Brightness normal

- 2. Position neck ass'y as shown in Fig. 3-2.
- 3. Set the pattern generator raster signal to red.
- 4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.

(see Fig. 3-1 through 3-3.)

- 5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig. 3-1.)
- Switch the raster signal to blue, then to green and verify the condition.
- 7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- 8. If the beam does not land correctly in all the corners, use a magnet to adjust it.

(See Fig. 3-4.)

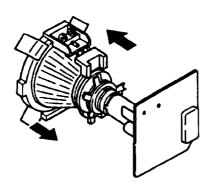
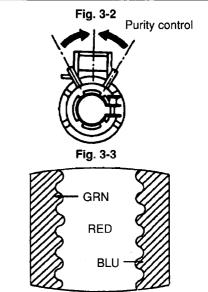
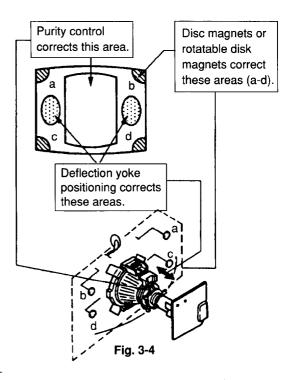


Fig. 3-1



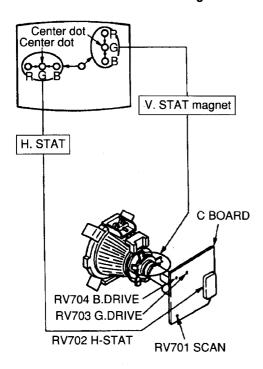


### 3-2. CONVERGENCE

### Preparation:

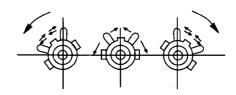
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

### (1) Horizontal and vertical static convergence

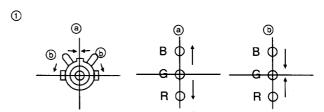


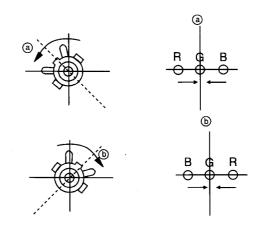
- (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen
- 2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
- If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
  - (In this case, the H.STAT variable resistor and the V.STAT magnet influence each other.)

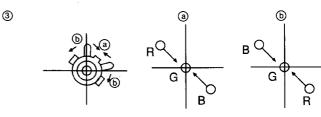
 Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the a and arrows, the red, green, and blue points move as shown below.

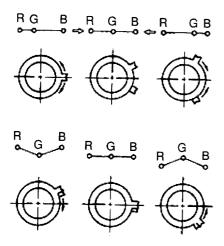






2

Operation of BMC (Hexapole) Magnet

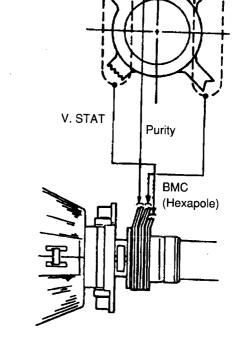


 The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
 Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

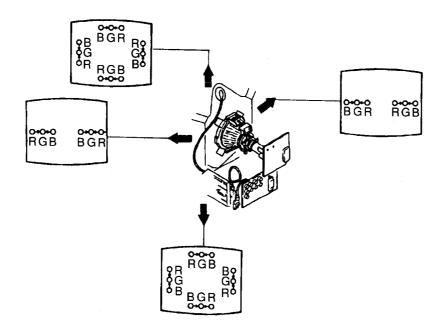


Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

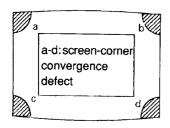
- 1. Slightly loosen the deflection yoke screws.
- 2. Remove the deflection yoke spacer.



- Move the deflection yoke as shown in the figure below and optimize the convergence.
- Tighten the deflection yoke screws.
- 5. Install the defelection yoke spacer.

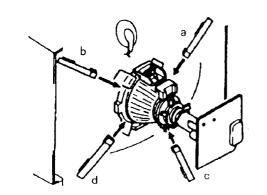


### (3) Screen corner convergence





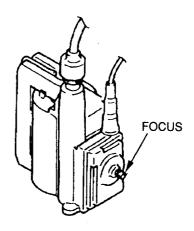
Install the permalloy assembly for the section with faulty.



Parmalloy ass'y, correction.

### **3-3. FOCUS**

Adjust the focus to optimize the screen.



### 3-4. WHITE BALANCE

### **SCREEN G2 SETTING**

- 1. Input the dot signal from the pattern generator.
- 2. Set the picture brightness control to its lowest level.
- 3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
- 4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

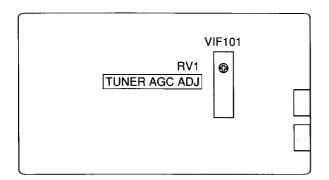
### WHITE BALANCE ADJUSTMENT

- 1. Input an all-white signal from the pattern generator.
- $2. \quad \text{Set the picture brightness and color controls to their normal levels}.$
- 3. Use RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.

### SECTION 4 CIRCUIT ADJUSTMENTS

### 4-1. A BOARD ADJUSTMENT

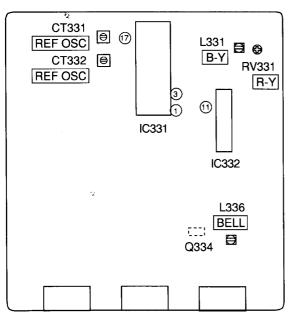


A BOARD (COMPONENT SIDE)

### **TUNER AGC ADJUSTMENT (VIF101, RV1)**

- 1. Align with an appropriate signal between stations.
- Adjust RV1 so that snow noise and cross modulation just disappear from the picture.

### 4-2. B BOARD ADJUSTMENTS



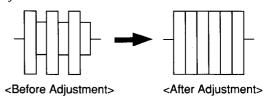
**B BOARD (COMPONENT SIDE)** 

### REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

- 1. Input a PAL color bar signal.
- 2. Ground pin (17) of the IC331.
- 3. Adjust CT332 to obtain synchronization.

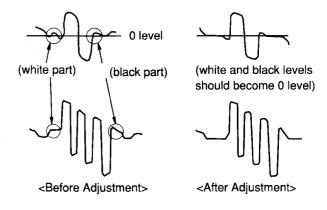
### **BELL FILTER ADJUSTMENT (L336)**

- 1. Input a SECAM color bar signal.
- 2. Connect the oscilloscope to the emitter of Q334.
- 3. Adjust L336 so that the waveform is flat.

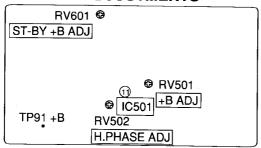


### DISCRIMINATOR ADJUSTMENTS (RV331 and L331)

- 1. Input a SECAM color bar signal.
- 2. Connect the oscilloscope to pin ① of IC331.
- Adjust RV331 until the white and black sections of the waveform at pin (1) are at the 0 level.
   Connect the oscilloscope to pin (3) of IC331.
- Adjust L331 until the white and black sections of the waveform at pin 3 are at the 0 level.



### 4-3. D BOARD ADJUSTMENTS



D BOARD (COMPONENT SIDE)

### +B ADJUSTMENT (RV501)

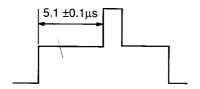
- 1. Connect the digital multimeter to TP91.
- Adjust RV501 to obtain  $135 \pm 0.2$ V.

### ST-BY +B ADJUSTMENT (RV601)

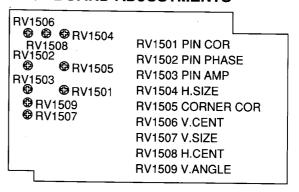
- 1. Put the system into  $\circlearrowleft$  standby mode (remote commander).
- Connect the digital multimeter to TP91.
- Adjust RV601 to obtain  $135 \pm 3V$ .
- Take the system out of  $\Theta$  standby mode (remote commander).

### **H.PHASE ADJUSTMENT (RV502)**

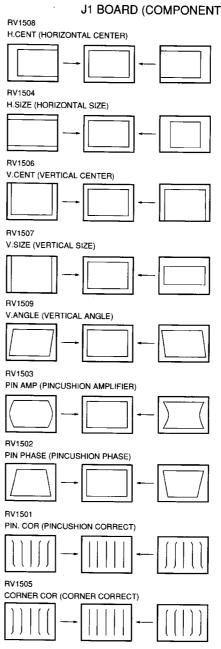
- 1. Input a PAL color bar signal.
- Set the picture and brightness controls to their normal levels.
- Set RV1508 (H.CENT) to its mechanical center.
- 4. Connect the oscilloscope to pin (1) (SCP) of IC501.
- Rotate RV502 to adjust to  $5.1 \pm 0.1 \mu s$ .



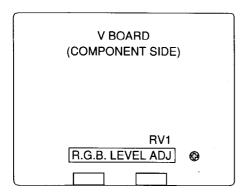
### 4-4. J1 BOARD ADJUSTMENTS



### J1 BOARD (COMPONENT SIDE)



### 4-5. V BOARD ADJUSTMENT



### **RGB LEVEL ADJUSTMENT (RV01)**

- 1. Maximize the picture setting.
- 2. Adjust RV01 so that the RGB output is 0.75V.

### **SUB COLOR ADJUSTMENT**

- 1. Set the system to receive color bars.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Cut off the power.
- 4. While depressing the adjustment buttons + and simultaneusly, turn on the power. (SUB mode is obtained).
- 5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
- 6. Depress the  $\diamondsuit$  (store) button of the remote commander. (SUB mode is released)

### 4-6. SECONDARY ADJUSTMENTS

### **SUB BRIGHTNESS ADJUSTMENT**

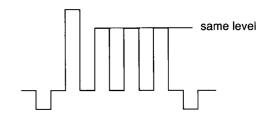
- 1. Set the system to receive a test pattern.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Switch off the power.
- 4. While depressing the adjusting buttons + and simultaneusly, turn on the power. (SUB mode is obtained)
- 5. Minimize the O contrast setting.
- 7. Depress the (store) button of the remote commander.(SUB mode is released)

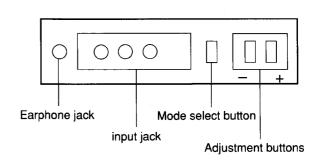
If there is no test color pattern

- 1. Set the system to receive a color pattern.
- 2. Press → •← on the remote commander to put the system into normal mode.

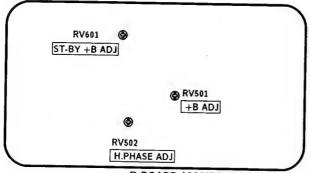
Set the 3 color to its normal state.

- 3-5. Steps are the same as above.
- 6. Since 20 IRE is nearly blue, adjust the ★ brightness control so that the blue barely glows.
- 7. Same as step 7 above.
- Press → ← on the remote commander to put the system into normal mode.





### 4-3. D BOARD ADJUSTMENTS



D BOARD (COMPONENT SIDE)

### +B ADJUSTMENT (RV501)

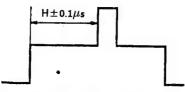
- 1. Connect the digital multimeter to TP91.
- 2. Adjust RV501 to obtain  $135 \pm 0.2$ V.

### ST-BY +B ADJUSTMENT (RV601)

- 1. Put the system into  $\circlearrowleft$  standby mode (remote commander).
- 2. Connect the digital multimeter to TP91.
- 3. Adjust RV601 to obtain  $135 \pm 3V$ .
- 4. Take the system out of  $\circlearrowleft$  standby mode (remote commander).

### H.PHASE ADJUSTMENT (RV502)

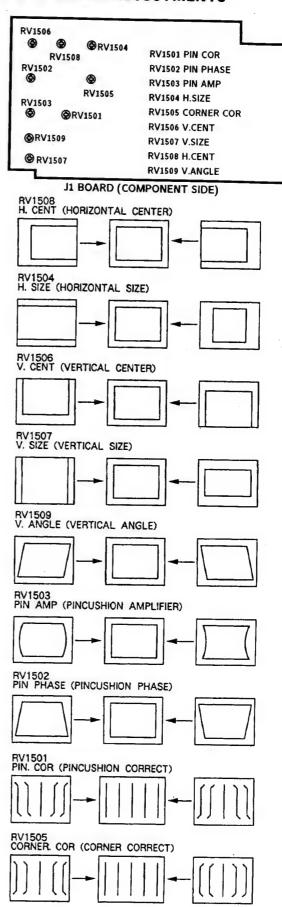
- 1. Input a PAL color bar signal.
- 2. Set the picture and brightness controls to their normal levels.
- 3. Set RV1508 (H.CENT) to its mechanical center.
- 4. Connect the oscilloscope to pin (I) (SCP) of IC 501.
- 5. Rotate RV502 to adjust to  $H \pm 0.1 \mu s$ .



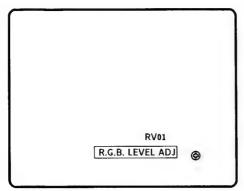
Standard of H. PHASE

Model Size	Н
25 "	$5.1 \mu s$
29 "	$5.5 \mu s$

### 4-4. J1 BOARD ADJUSTMENTS



### 4-5. V BOARD ADJUSTMENTS



V BOARD (COMPONENT SIDE)

### RGB LEVEL ADJUSTMENT (RV01)

- 1. Maximize the picture setting.
- 2. Adjust RV01 so that the RGB output is 0.75V.

### 4-6. SECONDARY ADJUSTMENTS

### SUB BRIGHTNESS ADJUSTMENT

- 1. Set the system to receive a test pattern.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Switch off the power.
- 4. While depressing the adjusting buttons + and
   simultaneusly, turn on the power. (SUB mode is obtained)
- 5. Minimize the O contrast setting.
- 6. Adjust the ☼ brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
- 7. Depress the  $\diamondsuit$  (store) button of the remote commander.

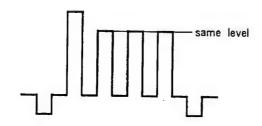
(SUB mode is released)

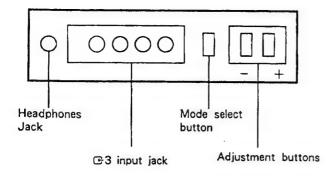
If there is no test color pattern

- 1. Set the system to receive a color pattern.
- Press → ← on the remote commander to put the system into normal mode.
   Set the ② color to its normal state.
- 3-5. Steps are the same as above.
- 6. Since 20 IRE is nearly blue, adjust the ☆ brightness control so that the blue barely glows.
- 7. Same as step 7 above.
- Press → ← on the remote commander to put the system into normal mode.

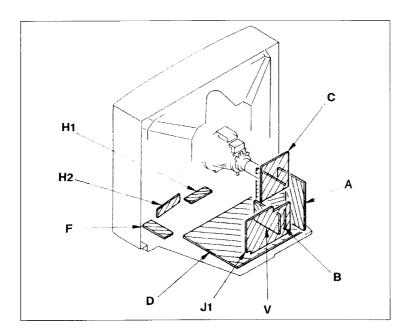
### SUB COLOR ADJUSTMENT

- 1. Set the system to receive color bars.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Cut off the power.
- While depressing the adjustment buttons + and
   simultaneusly, turn on the power. (SUB mode is obtained).
- 5. Adjust the color control so that the B out waveform (pin 5 of C board connector CNC72) is as shown in the figure below.
- 6. Depress the  $\diamondsuit$  (store) button of the remote commander. (SUB mode is released)





### 5-2. CIRCUIT BOARD LOCATION



### 5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS - Conductor Side -

### Note:

•	All capacitors are in μF unless otherwise noted. pF: μμF	Reference infor	rmation	
	50WV or less are not indicated except for electrolytic and	RESISTOR	: RN	METAL FILM
	tantalums.		: RC	SOLID
•	All resistors are in ohms.		: FPRD	NONFLAMMABLE CARBON
	$k\Omega = 1000\Omega$ , $M\Omega = 1000K\Omega$		: FUSE	NONFLAMMABLE FUSIBLE
•	Indication of resistance, which does not have one for rating		: RS	NONFLAMMABLE METAL OXIDE
	electrical power, is as follows.		: RB	NONFLAMMABLE CEMENT
			: RW	NONFLAMMABLE WIREWOUND
	Pitch: 5 mm		:※	ADJUSTABLE RESISTOR
	Rating electrical power ¼ W	COIL	: LF-8L	MICRO INDUCTOR
		CAPACITOR	: TA	TANTALUM
•	: nonflammable resistor.		: PS	STYROL
•	$\triangle$ : internal component.		: PP	POLYPROPYLENE
•	: panel designation, or adjustment for repair.		: PT	MYLAR
•	All variable and adjustable resistors have characteristic curve		: MPS	METALIZED POLYESTER
	B, unless otherwise noted.		: MPP	METALIZED POLYPROPYLENE
•	: earth - ground.		: ALB	BIPOLAR
•	: earth - chassis.		: ALT	HIGH TEMPERATURE
•	; no mounted.		: ALR	HIGH RIPPLE

Readings are taken with a colour-bar signal input.

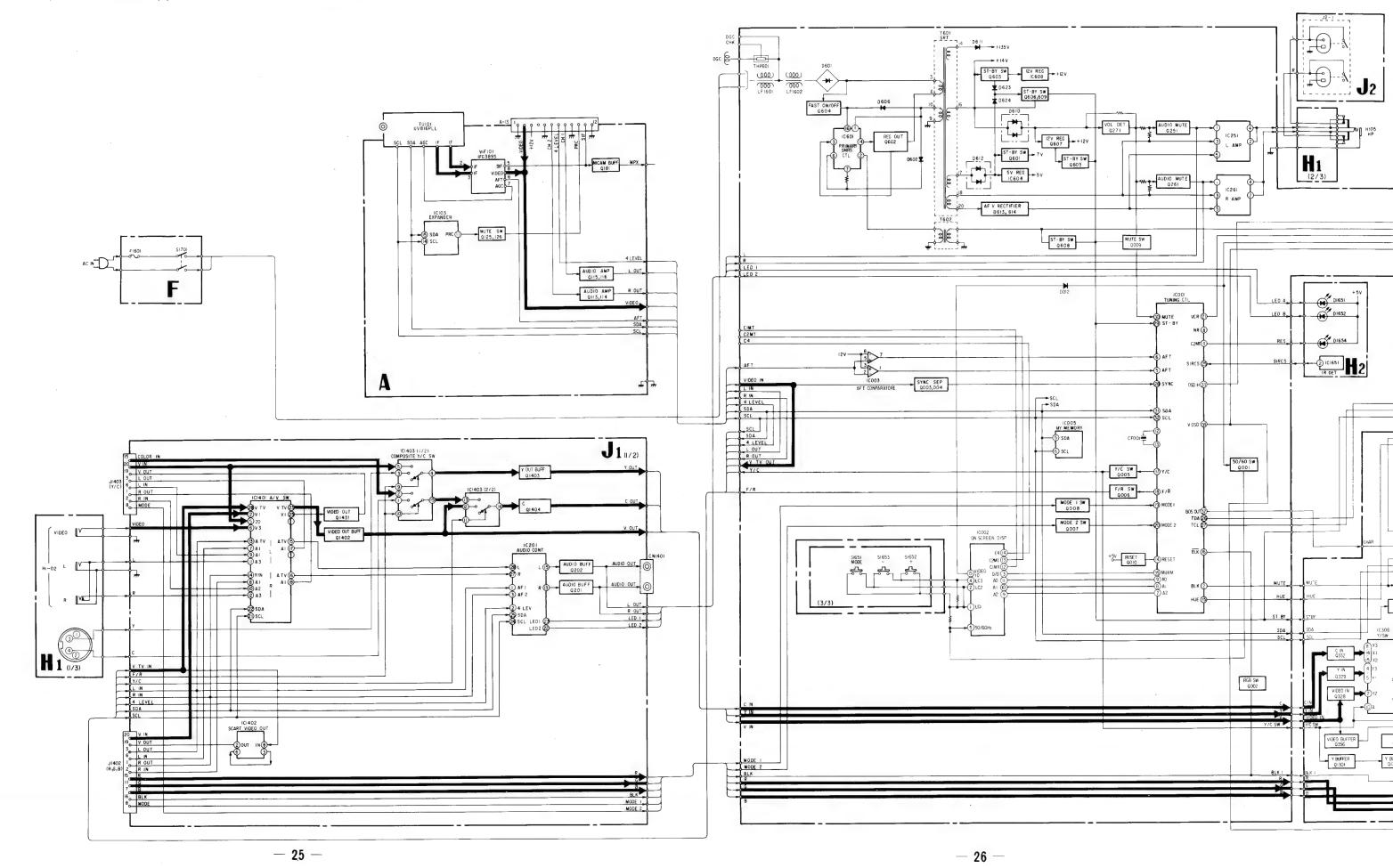
Readings are taken with  $10 M\Omega$  digital multimeter. Voltages are dc with respect to ground unless otherwise noted. Voltage variations may be noted due to normal production tolerances.

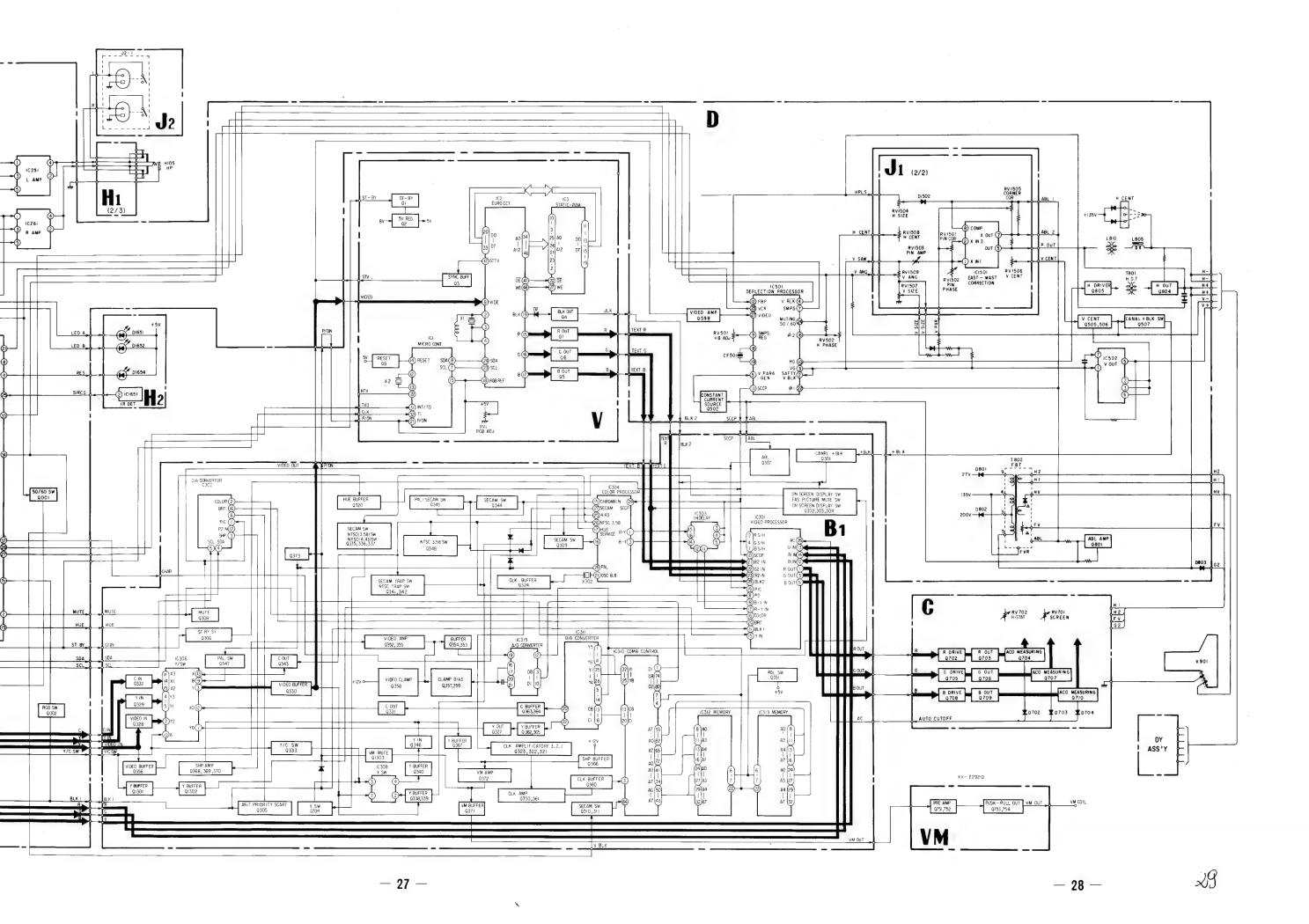
All voltages are in V.

Circled numbers are waveform references.

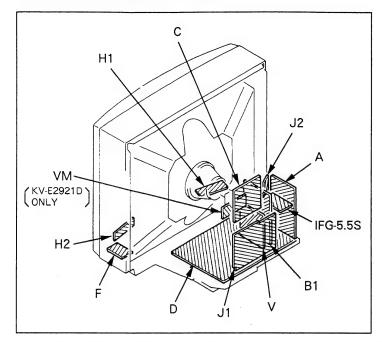
: B+ bus.

: signal path. (RF)





### 5-2. CIRCUIT BOARDS LOCATION



Note: The components identified by shading and mark nare critical for safety. Replace only with part number specified.

### Note:

Pitch: 5mm Rating electrical power: 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms.  $k\Omega = 1000\Omega$ ,  $M\Omega = 1000k$

- panel designation and adjustment for repair.
- All voltages are in V.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production. tolerances.

### Reference information

RESISTOR RN METAL FILM SOLID RC NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE : FUSE NONFLAMMABLE METAL OXIDE RB NONFLAMMABLE CEMENT NONFLAMMABLE WIREWOUND : RW ADJUSTMENT RESISTOR COIL MICRO INDUCTOR : LF-8L CAPACITOR : TA TANTALUM PS STYROL POLYPROPYLENE : PT MYLAR MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE **BIPCLAR** : ALB : ALT HIGH TEMPERATURE

HIGH RIPPLE

: ALR



- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics.
- · Indication of resistance, which does not have one for rating electrical power, is as follows.

- monflammable resistor.
- tusible resistor.
- △: internal component.
- All variable and adjustable resistors have characteristic curve B.unless otherwise noted.
- Readings are taken with a  $10M\Omega$  digital multimeter.

- -: B + line.
- signal path. (RF)





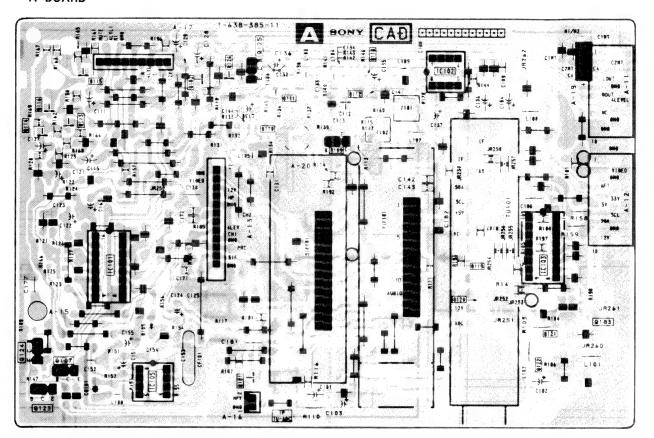


AUDIO CONTROL, AV INPUT, Y/C INPUT, SCART VIDEO OUT, EAST-WEST CORRECTION

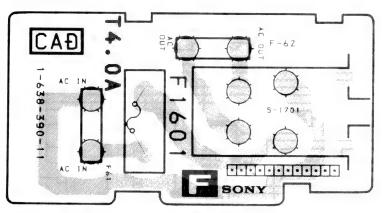


[SPEAKER TERMINAL]

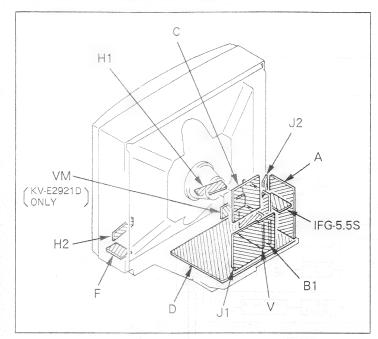
-A BOARD-







### 5-2. CIRCUIT BOARDS LOCATION



### 5-3. SCHEMATIC DIAGRAM AND PRINTED WIRING BOARDS

Note: The components identified by shading and mark nare critical for safety. Replace only with part number specified.

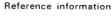
### Note:

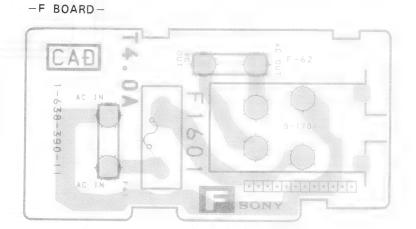
- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics.
- · Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm Rating electrical power: 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms,  $k\Omega = 1000\Omega$ ,  $M\Omega = 1000k\Omega$
- m : nonflammable resistor.
- w~ : fusible resistor.
- △: internal component.
- | : panel designation and adjustment for repair.
- · All variable and adjustable resistors have characteristic curve B.unless otherwise noted.
- · All voltages are in V.
- Readings are taken with a 10MΩ digital multimeter.
- · Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- signal path. (RF)

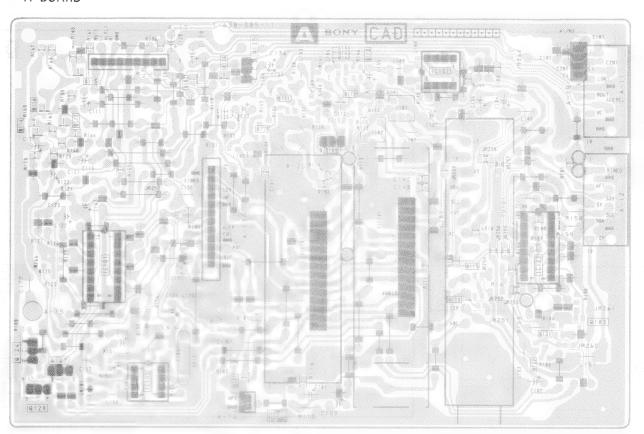
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
Annage to the	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPCLAR
	: ALT	HIGH TEMPERATURE
	ALR	HIGH RIPPLE





AUDIO CONTROL, AV INPUT, Y/C INPUT, SCART VIDEO OUT,

-A BOARD-



PEAKER TERMINAL]

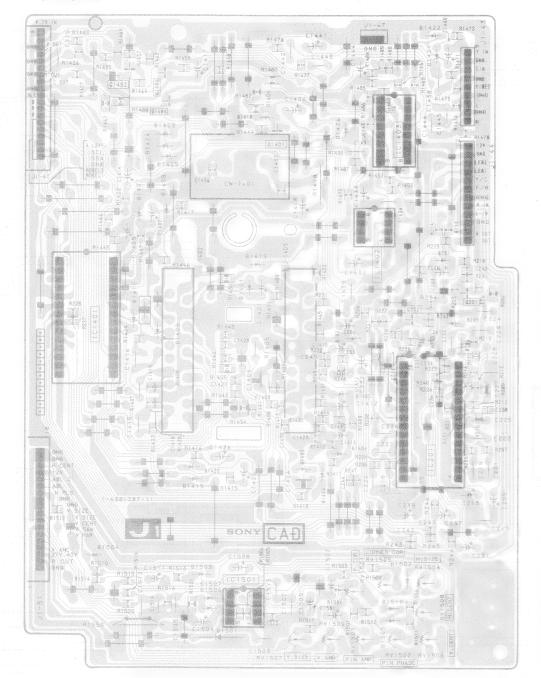
1 IVM AMPI

H1 [CONTROL SW, AV INPUT]

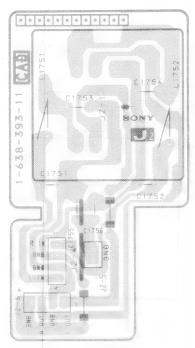


[SIRCS, RECEIVER, ] INDICATOR

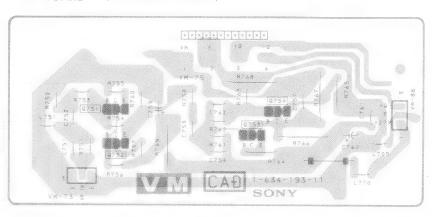
-J1 BOARD-



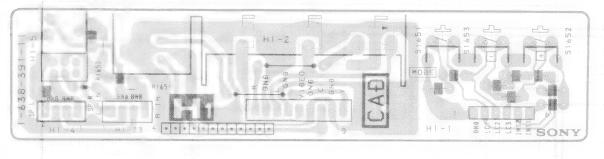
-J2 BOARD-



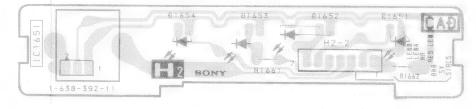
### -VM BOARD- (KV-E2921D ONLY)

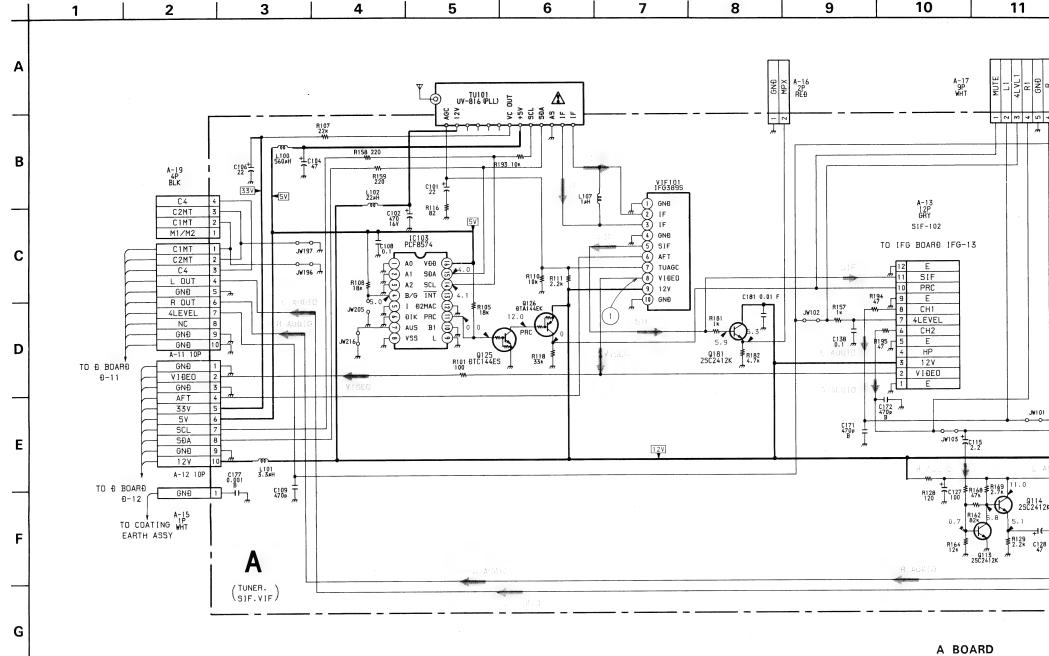


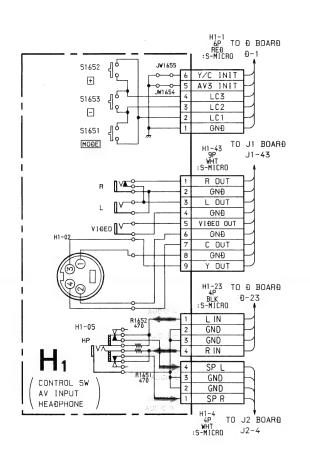
### -H1 BOARD-



### -H2 BOARD-







Н

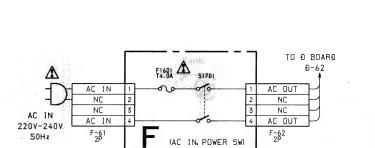
J

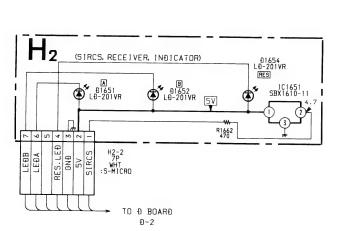
K

M

Ν

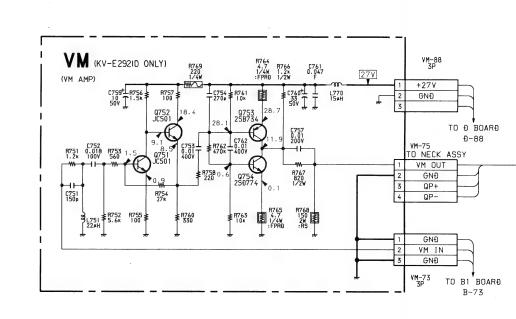
0





### H2 ROARD

riz buah	D	
101651	SBX1610-11	INFRAREÐ RECIVER
Ð1651	LÐ-201VR	AUÐIO CHANNEL A INÐICATOR
Ð1652	LÐ-201VR	AUDIO CHANNEL B INDICATOR
Ð1654	LÐ-201VR	RESET



### VM BOARD (KV-E2921D ON

IC103

Q113

Q114

Q115

Q116

Q125

Q126

Q181

PCF857

2SC241

2SC241

2SC241

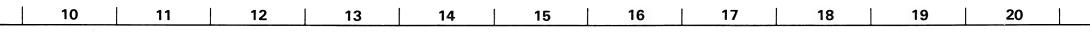
2SC241

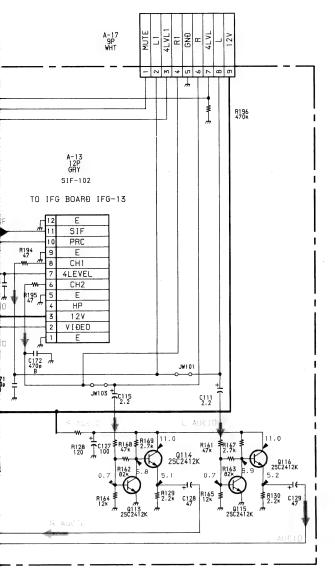
**DTC144** 

**ĐTA144** 

2SC241

Q751	JC501	RE
Q752	JC501	RE
Q753	2SB734	Pl
0754	2Sf)774	PI

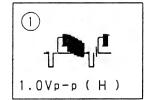


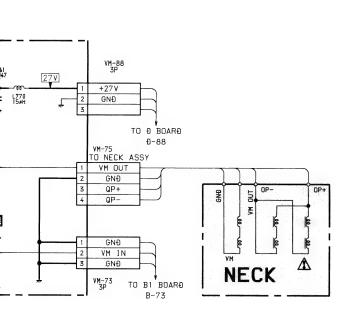


### A BOARD

IC103	PCF8574	EXPANDER
Q113	25C2412K	AUDIO AMP
Q114	25C2412K	AMP OIGUA
Q115	25C2412K	AMA DIGUA
Q116	25C2412K	AUĐIO AMP
Q125	ĐTC144ES	MUTE SW
Q126	ÐTA144EK	MUTE SW
Q181	25C2412K	NICAM BUFFER

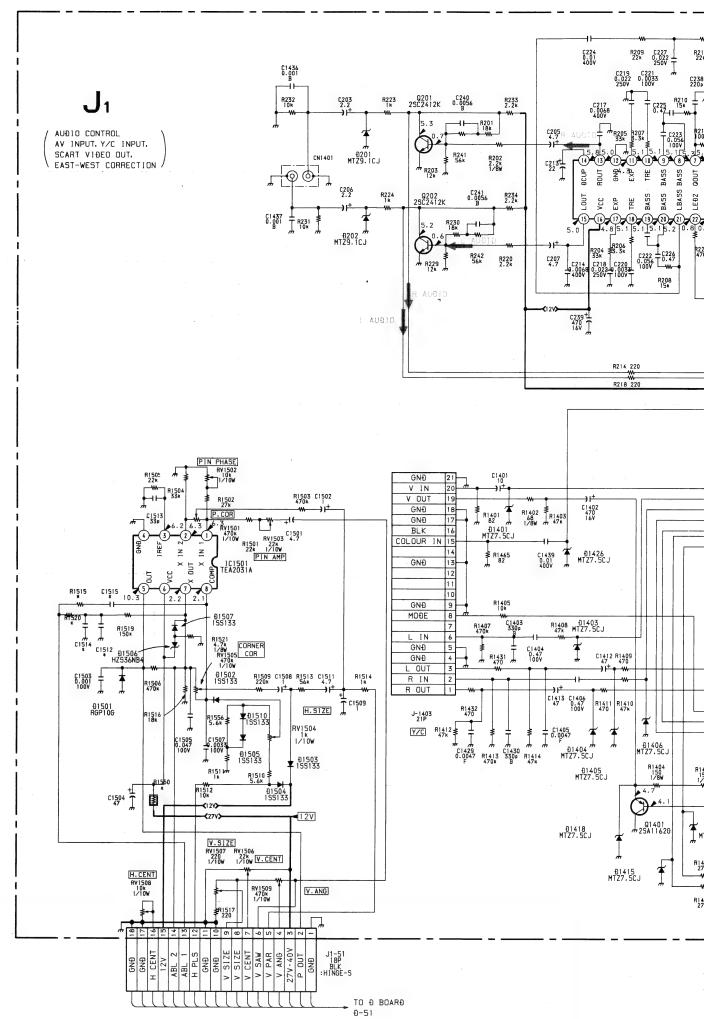
### WAVEFORMS A BOARD

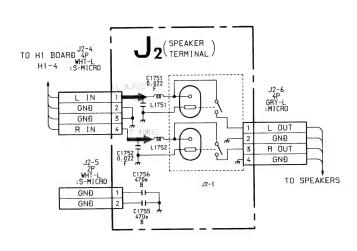


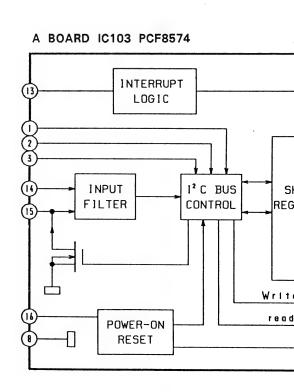


### VM BOARD (KV-E2921D ONLY)

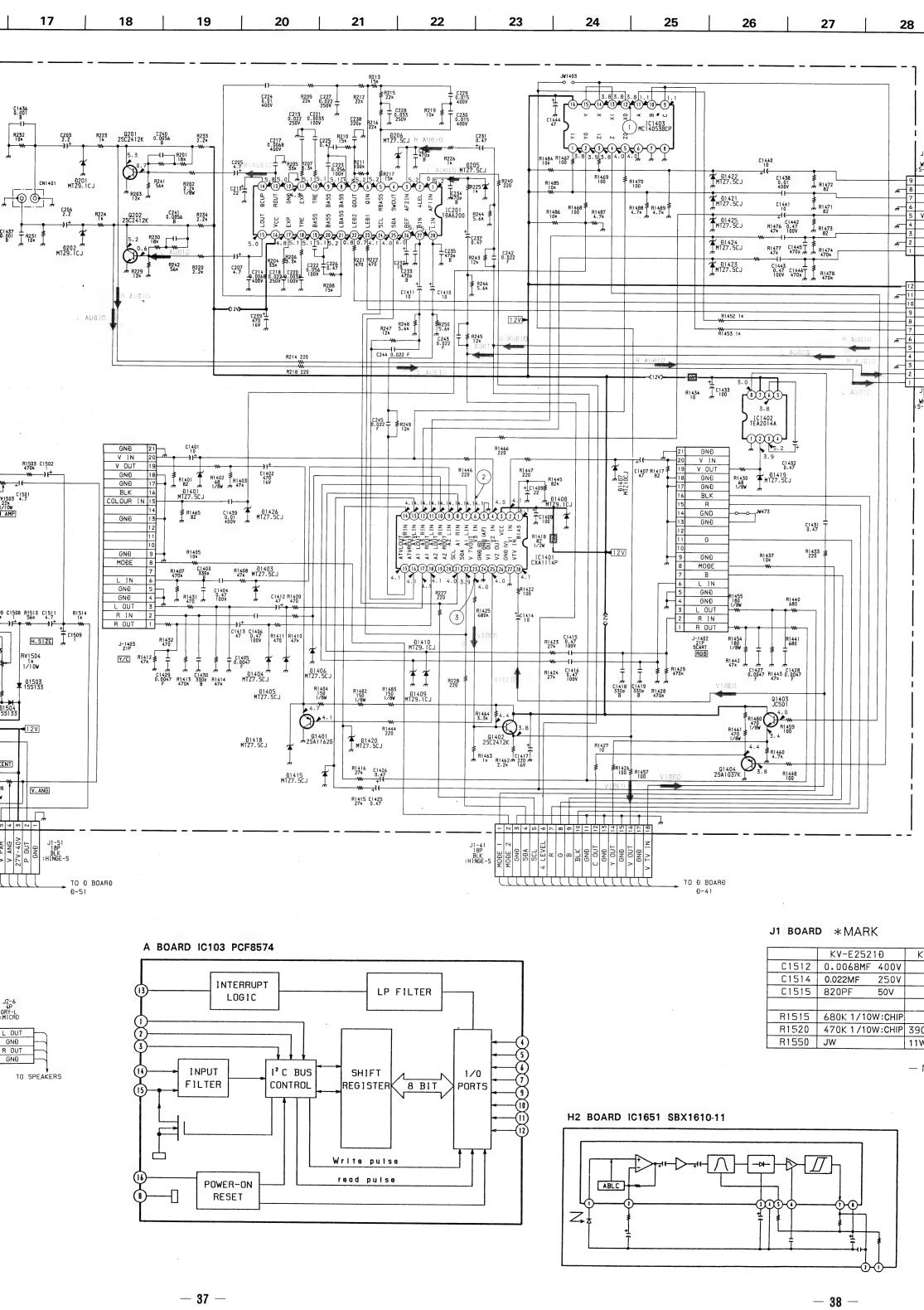
VIVI BUAR	ND (NV-E2921D	ONLY)
Q751	JC501	REF AMP
Q752	JC501	REF AMP
Q753	2SB734	PUSH-PULL OUT
0754	250774	PUSH-PULL OUT



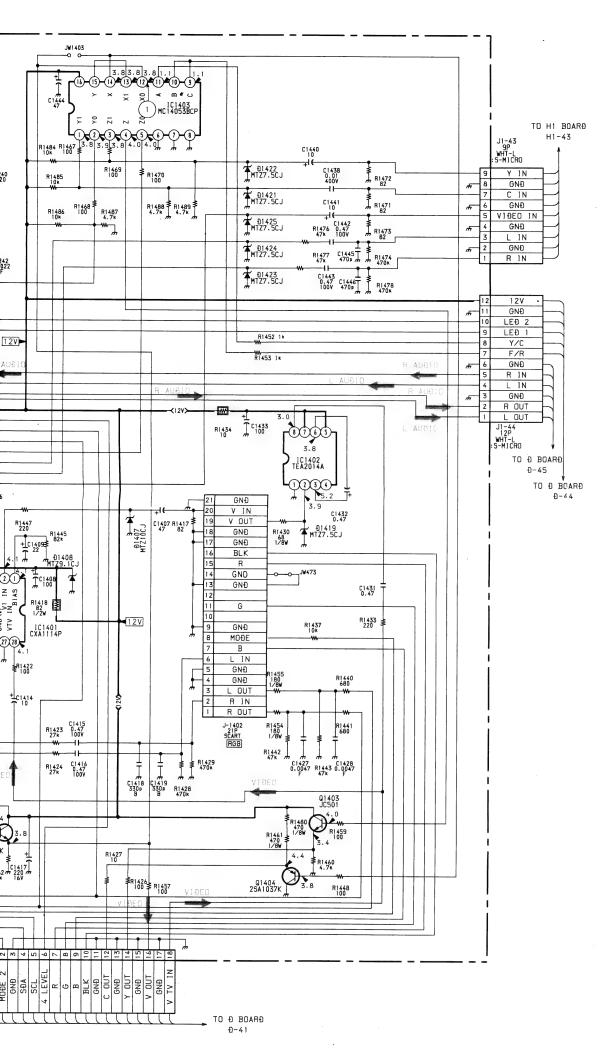




2



23 24 25 26 27 28 29



### J1 BOARD \*MARK

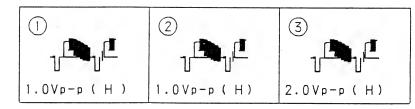
	KV-E252	1 Đ	KV-E2921Đ
C1512	0.0068MF	400V	
C1514	0.022MF	250V	
C1515	820PF	50V	
R1515	680K 1/10	W:CHIP	
R1520	470K 1/10V	W:CHIP	390K 1/10W:CHIP
R1550	JW		11W : RS

- NOT MOUNTED

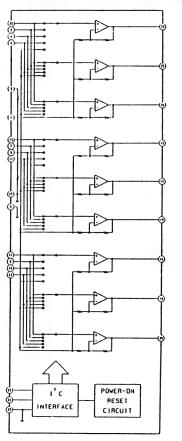
### J1 BOARD

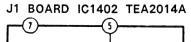
IC201	TĐA6200	AUÐIO CONTROL
IC1401	CXA1114P	AV SW
IC1402	TEA2014A	SCART VIĐEO DUT
IC1403	MC14053BCP	COMPOSITE Y/C SW
IC1501	TEA2031A	EAST-WEST CORRECTION
101301	TEAZOSTA	LAST-WEST CONNECTION
Q201	25C2412K	AUÐIO R BUFF
Q202	25C2412K	AUÐIO L BUFF
Q1401	2SA1162G	VIĐEO OUT
Q1402	25C2412K	VIĐEO GOT VIĐEO OUT BUFF
Q1403	JC501	Y OUT BUFF
Q1404	2SA1037K	C OUT BUFF
011404	20A1037K	C DOT BUFF
Đ201	MTZJ-T-77-9.1C	PROTECT
Đ202	MTZJ-T-77-9.1C	PROTECT
Đ205	MTZJ-T-77-7.5C	PROTECT
£206	MTZJ-T-77-7.5C	PROTECT
Đ1401	MTZJ-T-77-7.5C	PROTECT
Đ1403	MTZJ-T-77-7.5C	PROTECT
Ð1404	MTZJ-T-77-7.5C	PROTECT
Ð1405	MTZJ-T-77-7.5C	PROTECT
Ð1406	MTZJ-T-77-7.5C	PROTECT
Ð1407	MTZJ-T-77-10C	PROTECT
Ð1408	MTZJ-T-77-9.1C	REG
Ð1409	MTZJ-T-77-9.1C	PROTECT
Ð1410	MTZJ-T-77-9.1C	PROTECT
Ð1415	MTZJ-T-77-7.5C	PROTECT
Ð1418	MTZJ-T-77-7.5C	PROTECT
Ð1419	MTZJ-T-77-7.5C	PROTECT
Ð1420	MTZJ-T-77-7.5C	PROTECT
Ð1421	MTZJ-T-77-7.5C	PROTECT
Ð1422	MTZJ-T-77-7.5C	PROTECT
Ð1423	MTZJ-T-77-7.5C	PROTECT
Ð1424	MTZJ-T-77-7.5C	PROTECT
Ð1425	MTZJ-T-77-7.5C	PROTECT
Ð1426	MTZJ-T-77-7.5C	PROTECT
Ð1501	RGP10GPKG23	PROTECT
£)1502	155133	ĐE COUPLING H SIZE
£1503	155133	CLIPPING V PARABORA
Ð1504	155133	CLIPPING H PULSE
Ð1505	155133	REG
Ð1506	HZS36NB4TĐ	PROTECT
Ð1507	199133	PROTECT
Ð1510	155133	REG

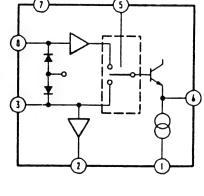
### • WAVEFORMS J1 BOARD



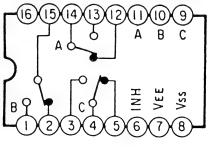
### J1 BOARD IC1401 CXA1114P



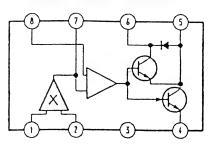




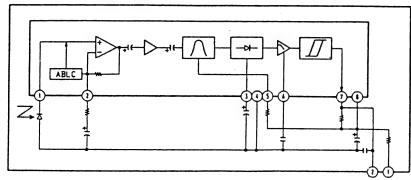
### J1 BOARD IC1403 MC14053BCP



### J1 BOARD IC1501 TEA2031A



### H2 BOARD IC1651 SBX1610-11



### J1 BOARD IC201 TDA6200

### • WAVEFORMS B1 BOARD

• WAVEFORMS B1 BOARD						
1 PAL	1 SECAM	1 NTSC3.58/ NTSC4.43	2 PAL			
יין אין אין אין אין אין	<u> </u>	777	-7-7-7-7			
5.4Vp-p ( H )  (2) SECAM	4.8Vp-p (H)  2 NTSC3.58/ NTSC4.43	5.6Vp-p ( H )  (3) PAL	5.4Vp-p (H)  (3) SECAM			
m   m   m   m   m   m   m   m   m   m	MTSC4.43	աշխաղխաղխա	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
4.8 Vp-p (H)	5.6Vp-p (H)	5.4Vp-p(H)	5.0Vp-p ( H)			
3 NTSC3.58/ NTSC4.43	4	5 PAL	(5) SECAM			
4.444-4.444-4.44	1 1	James	Johnson			
6.2Vp-p ( H)	10.5Vp-p ( H)	0.4Vp-p ( H)	0.3Vp-p ( H )			
5 NTSC3.58/ NTSC4.43	6 PAL/SECAM .	6 NTSC3.58/ NTSC4.43	7 PAL/SECAM			
Luman	1/////	-171-171-171-	<u></u>			
0.6Vp-p ( H)	1.1Vp-p ( H)	1.2Vp-p ( H)	1.4Vp-p ( H)			
7 NTSC3.58/ NTSC4.43	8 PAL	8 SECAM	8 NTSC3.58/ NTSC4.43			
	27-17-17-	1/1-1/1-1/1-	-171-171-171-			
1.4Vp-p ( H)	0.4Vp-p(H)	1.0Vp-p ( H )	0.8Vp-p (H)			
9 PAL	9 SECAM	9 NTSC3.58/ NTSC4.43	(10) SECAM			
— <u>Му-Му-Му</u> -	<u></u>	0.85Vp-p (H)	<b>)                                    </b>			
(1) SECAM	1.4 V D D ( 11 /	12 SECAM	(12) NTSC3.58/ NTSC4.43			
	A Company of the Comp	111	11304.43			
1.2Vp-p ( H)	0.16Vp-p ( H)	0.2Vp-p ( H)	0.3Vp-p(H)			
13 PAL	13 SECAM	13 NTSC3.58	13 NTSC4.43			
-1 <sup>1</sup> -1 <sup>1</sup> -	Sand Market Sand		7			
1.0Vp-p ( H)	0.8Vp-p ( H)	0.9Vp-p ( H)	0.95Vp-p ( H)			
14 PAL	14 SECAM	(14) NTSC3.58	14) NTSC4.43			
0.875-5 ( 11)	0.77	مرائعهم المعمولات	and home of home of the			
0.8 Vp-p ( H )	0.7 Vp-p ( H )	0.6Vp-p ( H)	0.8 Vp-p ( H )			
		111.353.35	111 111.			
0.7Vp-p ( H )	0.1Vp-p ( H)	0.5Vp-p ( H)	0.6Vp-p ( H)			
16 PAL/SECAM	16 NTSC3.58	16) NTSC4.43	(17) PAL			
Jumy	مراسمراسم	a, baa, baa, ba	Johnson			
0.9 Vp-p (H)	0.7Vp-p ( H)	0.8Vp-p(H)	1.9Vp-p ( H)			
NTSC3.58	17) NTSC4.43	(18) PAL	18 SECAM			
344 MARIENTAL	3 the same the	3-M-manneths	STATE OF STA			
0.4Vp-p (H)	0.2Vp-p(H)	0.2Vp-p ( H)	0.8Vp-p ( H)			
19 PAL	19 SECAM	NTSC3.58/ NTSC4.43				
	The Part of the Pa	7,1,1				
0.6Vp-p ( H)	0.8Vp-p ( H )	0.9Vp-p(H)				

As to the voltage volue shown by the mark  $\divideontimes$  on the Schematic Diagram, see the another list.

1C·NO	PIN·NO	PAL	SECAM	NTSC 3.38	NTSC 4.43
	(5)	6.7	4.8	4.8	4.8
IC301	(15)	8.9	7.0	7.0	7.0
	(19)	3.4	3.4	3.8	3.4
	(24)	6.6	6.6	6.0	6.3
	(3)	0.1	6.8	6.9	6.8
10304	(5)	9.9	0	9.9	9.9
	(1)	4.6	0	4.6	4.6
	(1)	3.4	3.0	3.4	3.4
	(9)	3.4	3.0	3.4	3.4
	(10)	4.6	3.4	4.6	4.6
	(11)	2.3	3.1	3.1	2.3
	(11)	5.6	5.6	5.6	7.4
	(23)	7.5	7.5	5.7	5.7
	<b>(3)</b>	0.1	0.1	0.1	6.0
	æ	0.1	0.1	6.0	0.1
	Ø)	0.1	6.0	0.1	0.1
	<b>®</b>	6.0	0.1	0.1	0.1

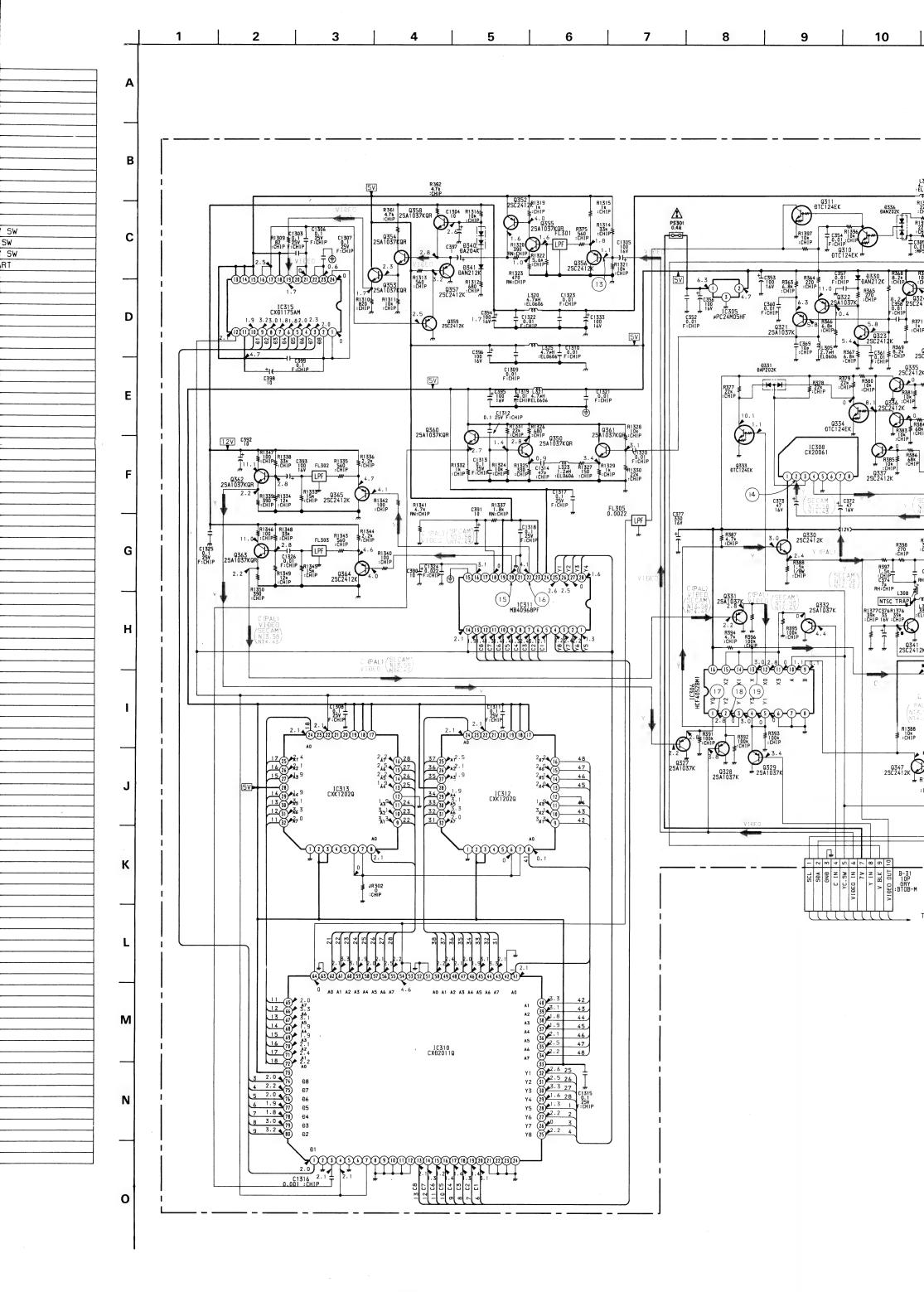
	- 1				
O · NO		PAL	SECAM	NTSC 3.38	NTSC 4.43
0338	3	2.4	3.9	3.9	3.9
G220	Ξ	3.0	4.6	4.6	4.6
0339		3.0	4.6	4.6	4.6
(223 E	=	2.4	3.9	3.9	3.9
0341 E	3	0	0.6	0.4	0.1
0341		11.6	0	11.6	11.6
Q342	3	0	0	0.4	0
U342		11.7	0	11.7	11.7
Q343	_	3.4	5.4	5.3	5.3
U343 E		2.8	4.7	4.7	4.7
Q344 E	3	0	5.4	1.0	0.1
6374	:	4.4	4.8	1.5	4.5
0345 E		5.0	0.1	1.9	5.0
(3,2) E		4.4	4.4	1.4	4.4
0347 E	3 T	0.6	0	0	0
0347		0.1	11.9	11.9	11.9
0348 E	_	0.1	0.1	1.0	0.1 .
0340	: [	1.3	0.2	0.2	0.4

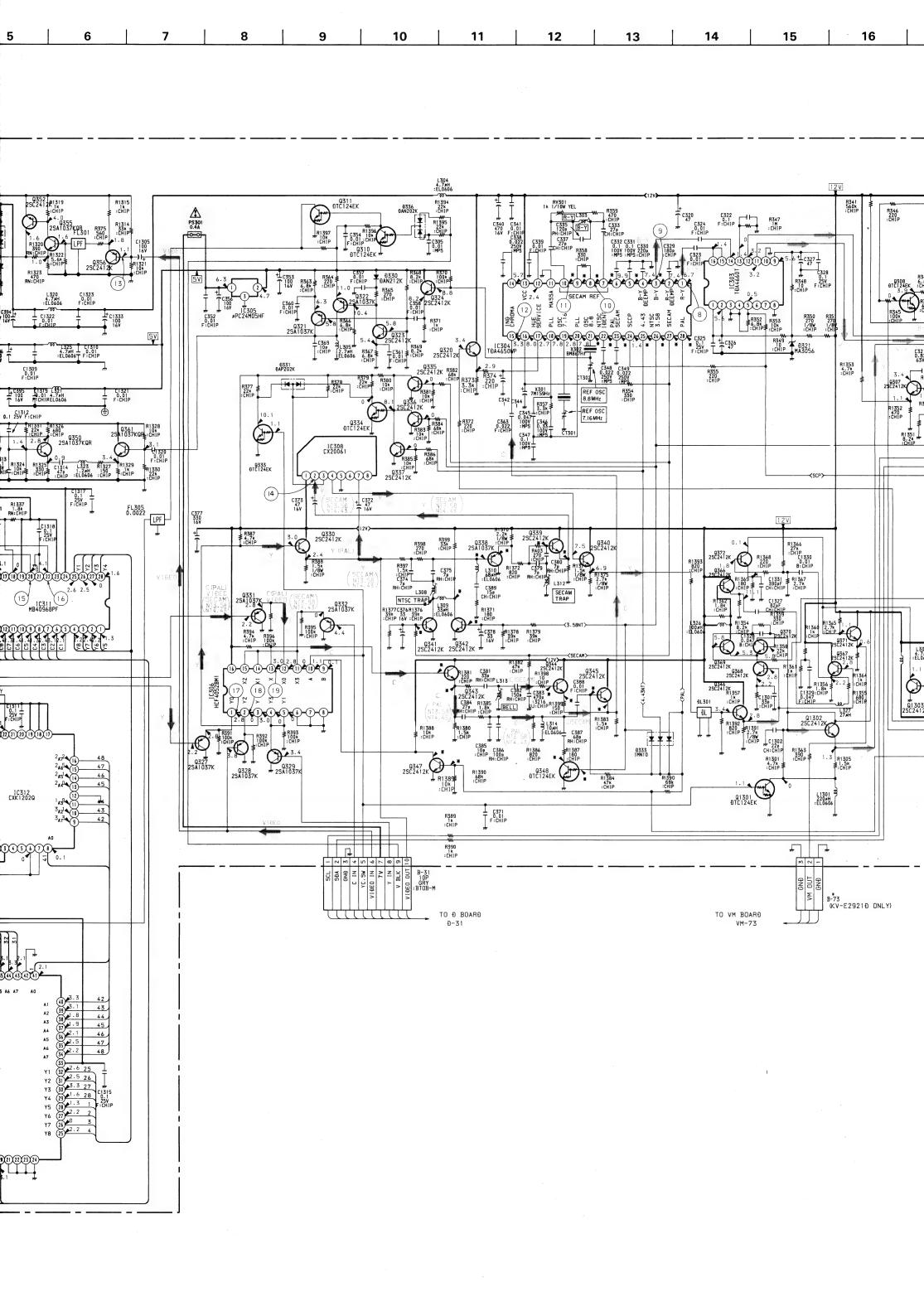
### B1 BOARD

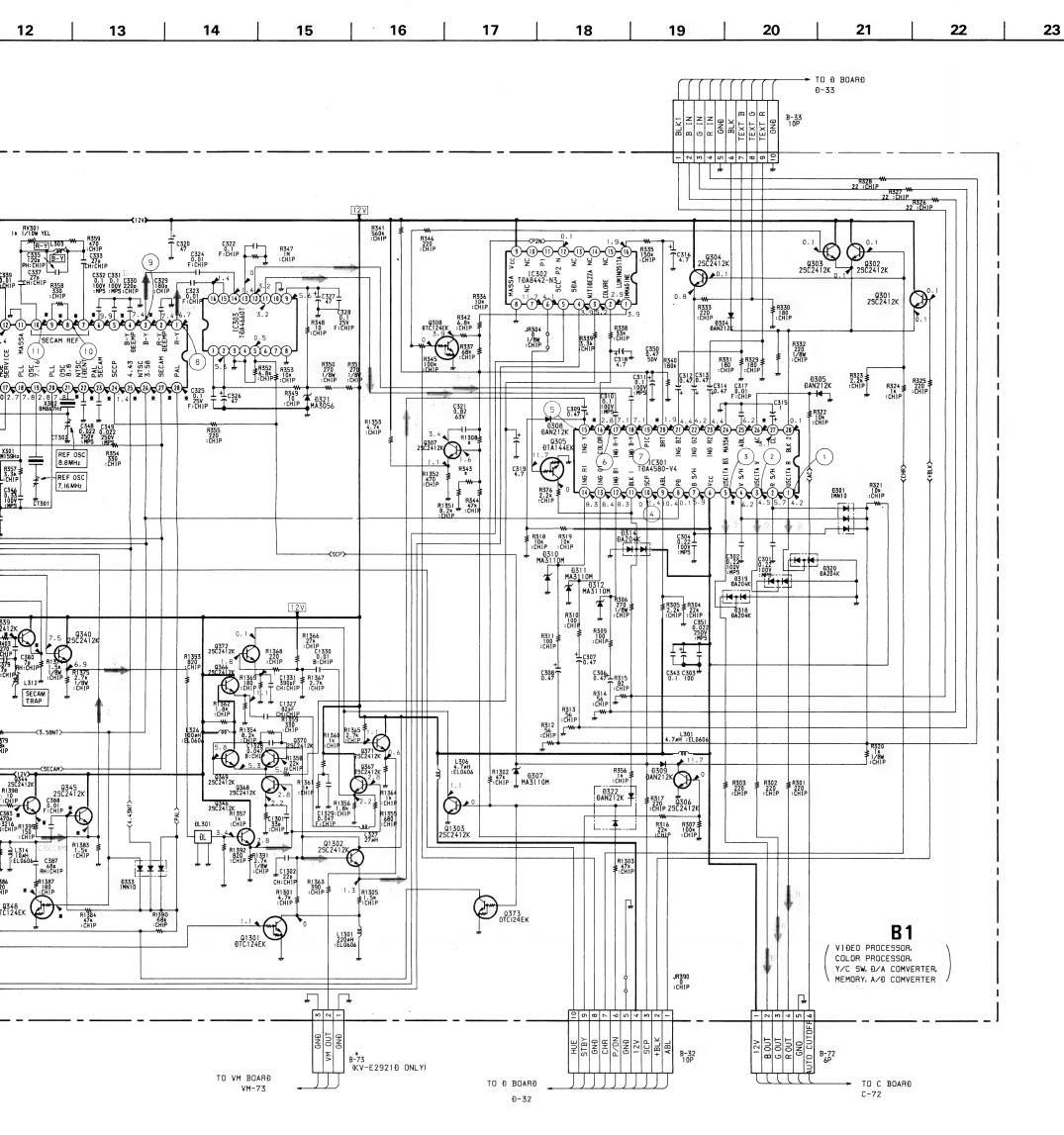
	10301	TĐA4580-V4	VIĐEO PROCESSOR
	C302	TĐA8442-N3	Đ/A CONVERTOR
	1C303 1C304	TĐA4660T TĐA4650WP	1H DELAY
_	1C304	#PC24M05HF	COLOR PROCESSOR REGULATAR
	C306	HCF4052BM1	Y/C SW
]	1C308	CX20061	Y INTERRURT
	10310	CXÐ2011Q	COMB CONTROL
	10311	MB40968PF	Đ/A COMVERTER
	C312	CXK1202Q CXK1202Q	MEMORY MEMORY
	C315	CXD1175AM	A/Ð COMVERTER
		0,011,0,11	NO BOSTIVETTEN
	Q301	2SC2412K	CANRL +BLK
	0302	2SC2412K	ON SCREEN DISPLAY SW
	0303	25C2412K	FAS PICTURE MUTE SW
	Q304	25C2412K	ON SCREEN DISPLAY SW
	Q305 Q306	DTA144EK 2SC2412K	ANIT PRIORITY SCART STBY SW
	Q307	2SC2412K	ABL
	Q308	ĐTC124EK	MUTE
	Q310	ÐTC124EK	SECAM SW
	Q311	ÐTC124EK	SECAM SW
	0320	25C2412K	HUE BUFFER
	0321	25A1037K	CLK AMP3
	Q322 Q323	2SA1037K 2SC2412K	CLK AMP2  CLK AMP1
	Q324	2SC2412K	CLK BUFFER
	0327	25A1037K	Y OUT
_	Q328	2SA1037K	VIĐEO IN
	0329	2SA1037K	Y IN
	0330	2SC2412K	VIĐEO BUFFER
	0331	2SA1037K	C OUT
	Q332 Q333	2SA1037K DTC124EK	C IN Y/C SW
	Q334	DTC124EK	Y SW
_	Q335	2SC2412K	SECAM SW
_	Q336	2SC2412K	NTSC (3.58) SW
	Q337	2SC2412K	NTSC (4.43) SW
-	Q338	2SA1037K	Y BUFFER
	0339	2SC2412K 2SC2412K	Y BUFFER
	Q340 Q341	25C2412K	Y BUFFER SECAM TRAP SW
	Q342	2SC2412K	NTSC TRAP SW
_	Q343	2SC2412K	C OUT
	Q344	25C2412K	SECAM SW
_	Q345	25C2412K	PAL/SECAM SW
	Q346	2SC2412K	YIN
	Q347 Q348	2SC2412K DTC124EK	PAL SW NTSC (3.58) SW
	0350	25A1037KQR	NTSC (3.58) SW
	0352	25C2412K	VIĐEO AMP
	Q353	25A1037KQR	BUFFER
	Q354	25A1037KQR	BUFFER
_	0355	25A1037KQR	VIĐEO AMP
	Q356 Q357	25C2412K 25C2412K	V10EO BUFFER CLAMP BIAS
	0358	25A1037KQR	VIĐEO CLAMP
	0359	2SC2412K	CLAMP BIAS
	0360	25A1037KQR	CLK BUFFER
	Q361	2SA1037KQR	CLK AMP
	Q362	25A1037KQR	Y BUFFER
	0363	2SA1037KQR	C BUFFER
-	Q364 Q365	2SC2412K 2SC2412K	C BUFFER Y BUFFER
	0366	25C2412K	SHP BUFFER
	0367	25C2412K	Y BUFFER
	Q368	25C2412K	SHP AMP
	0369	25C2412K	SHP AMP
_	0370	25C2412K	SHP AMP
_	0371	25C2412K	VM BUFFER
	0372	25C2412K DTC124EK	VM AMP
	1301	DTC124EK	Y BUFFER
	1302	25C2412K	Y BUFFER
Q	1303	25C2412K	VM MUTE
_	D.7.0.	114116	100 AT ATTY
_	D301	1MN10	ACO AT ATBY
	Đ304 Đ305	ĐAN212K ĐAN212K	PROTECT PROTECT
	Ð303	MA3110M	PROTECT
	Đ308	ĐAN212K	PROTECT
	Đ309	ĐAN212K	PROTECT
	Ð310	MA3110M	PROTECT
	Đ311	MA3110M	PROTECT
_	Đ312 Đ314	MA3110M ĐA204K	PROTECT PROTECT
_	Đ314 Đ318	ĐA204K	PROTECT
	Đ310	ĐAZO4K	PROTECT
_	Đ320	ĐA204K	PROTECT
	Đ321	MA3056	REG
	Đ322	ĐAN212K	PROTECT
-	Đ330	ĐAN212K	BIAS
_	Đ331	ĐAP202K	Y/C SW
-~	Đ333	1MN10	SYSTEM SW
	Đ336	ÐAN202K ÐA204K	CORRECT SW VIDEO AMP
	Đ340		

### B1 BOARD \*MARK

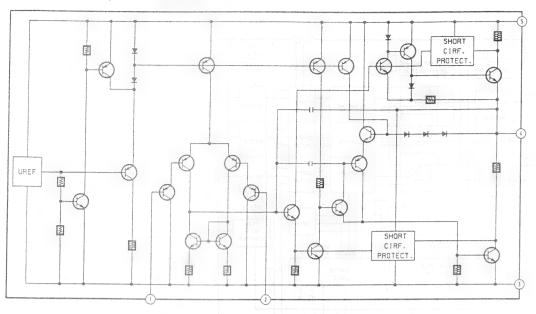
	KV-E2521Đ	KV-E2921Đ
R343	560 Ω 1/10V	V 2.2k 1/10W
R1308	0Ω 1/10V	V 4.7k 1/10W
B-73	OPEN	3P



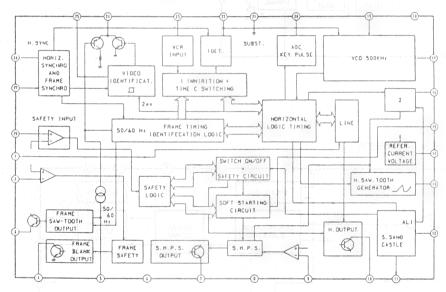


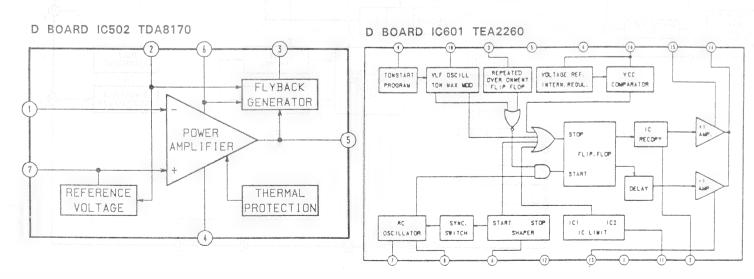


#### D BOARD IC251/261 TDA2050



#### D BOARD IC501 TEA2028B

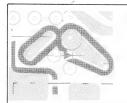




# TUNING CONTROL, POWER CONTROL, AUDIO OUT, H/V OUT

C	D010 I-2 D011 I-2 D012 D-2 D013 E-2 D271 C-6 D272 E-6 D501 I-8 D504 F-6 D506 H-7 D508 J-6 D509 F-7 D511 G-7 D511 G-7 D512 G-7 D513 G-7 D514 G-6 D501 A-8 D602 C-8 D601 A-8 D602 C-8 D603 A-7 D604 A-7 D605 C-8 D606 C-8 D607 B-8 D608 C-9 D609 B-8 D609 B-8 D609 B-8 D600 C-5 D611 E-7 D612 B-5 D611 E-7 D612 B-5 D611 E-7 D612 B-5 D611 E-7 D612 B-5 D611 B-7 D612 B-5 D613 A-6 D614 A-6 D616 E-6 D617 B-7 D618 E-6 D619 B-8 D620 E-6 D621 B-8 D620 E-7 D801 G-10 D802 H-12
Q601 B-4 Q602 C-10 Q603 B-5 Q604 A-7 Q605 E-7	D622 E-6 D623 B-5 D624 C-5 D630 E-7 D801 G-10
D	1/0
D	VR
D003 B-3 D005 I-2 D006 G-1 D007 B-2 D009 F-1	RV501 G-6 RV502 I-8 RV601 A-8





# NOTE: The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

IC	D010 I-2
10001 7 0	D011 I-2
IC001 B-2	D012 D-2
IC002 E-2	D013 E-2 D271 C-6
IC003 D-1	
IC005 H-2	D272 E-6
IC251 G-5	D501 I-8
IC261 D-5	D504 F-6
IC501 H-7	D506 H-7
IC502 G-7	D508 J-6
IC601 A-8	D509 F-7
IC604 A-5	D511 G-7
IC608 B-3	D512 G-7
	D513 G-7
	D514 G-6
	D515 F-6
TR	D601 A-8
0001 = 0	D602
Q001 E-2	D603 A-7
Q002 E-3	D604 A-7
Q003 E-1	0000
Q004 F-2	0000
Q005 C-2	D001
Q006 C-1	D608 C-9
Q007 H-2	D609 B-8
Q008 H-2	D610 C-5
Q009 D-3	D611 E-7
Q010 A-2	D612 B-5
Q251 G-5	D613 A-6
Q261 E-5	D614 A-6
Q271 D-6	D616 E-6
Q502 H-7	D617 B-7
Q505 F-7	D618 E-6
Q506 F-7	D619 B-8
Q507 J-6	D620 E-6
Q598 I-2	D621 B-8
Q601 B-4	D622 E-6
Q602 C-10	D623 B-5
Q603 B-5	D624 C-5
Q604 A-7	D630 E-7
Q605 E-7	D801 G-10
Q606 D-5	D802 H-12
Q607 D-6	D803 1-13
Q608 D-6	D804 F-9
Q609 C-5	D805 F-9
Q801 J-6	D806 F-12
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Q805 G-9	D808 E-11
	2 - 2
D	VR
D003 B-3	RV501 G-6
D005 I-2	RV502 1-8
D006 G-1	RV601 A-8
D007 B-2	
D009 F-1	

B1

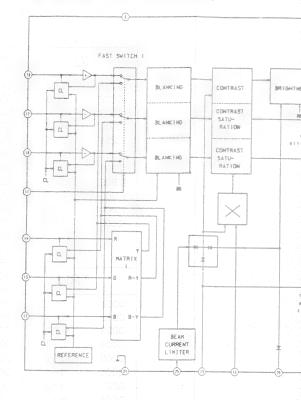
VIDEO PROCESSOR, COLOR PROCESSOR, Y/C SW, D/A COMVERTER, MEMORY, A/D COMVERTER

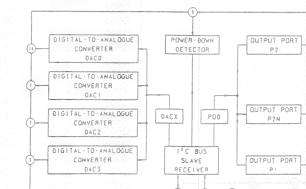
Note:

· ESSES: Pattern from the side which enables seeing.

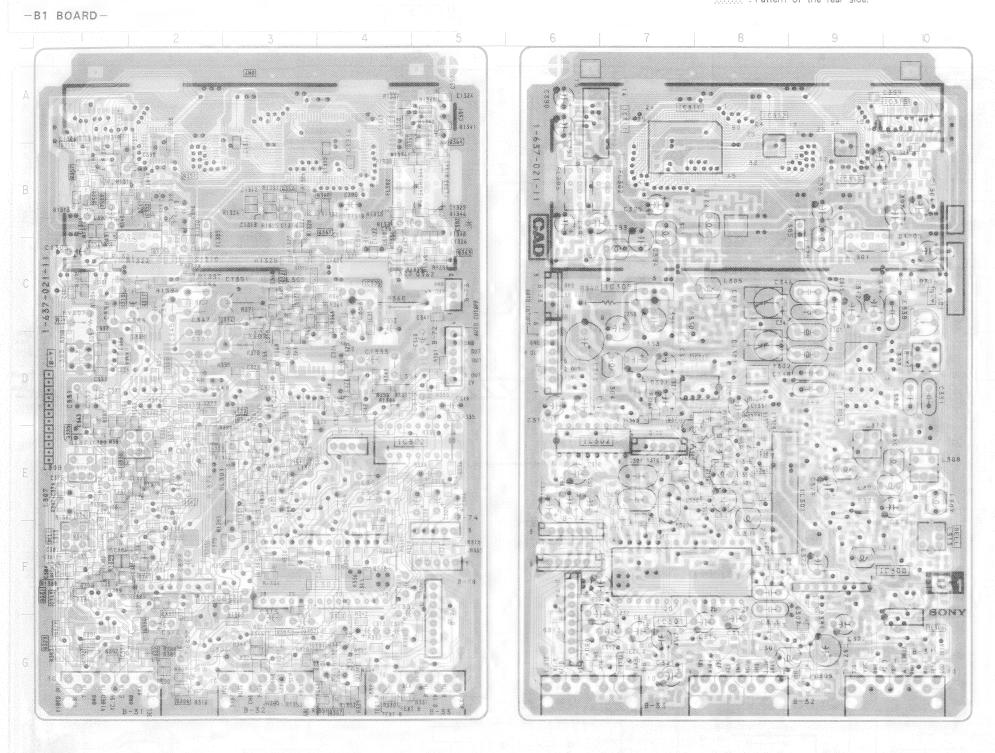
• Pattern of the rear side.

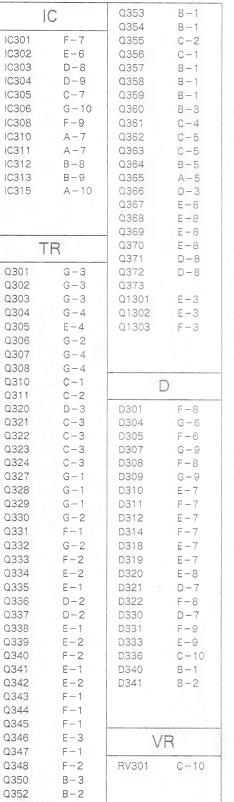
#### B1 BOARD IC301 TDA4580-V4



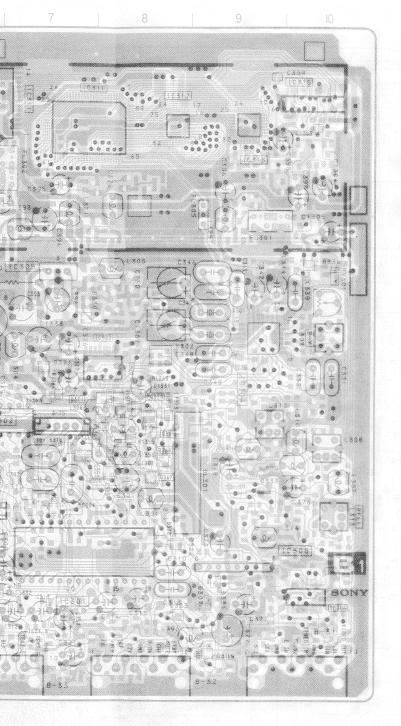


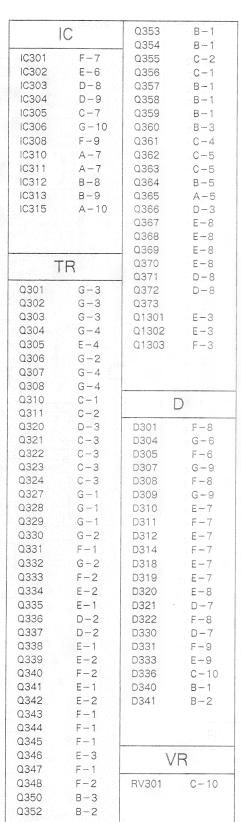
B1 BOARD IC302 TDA8442-N3



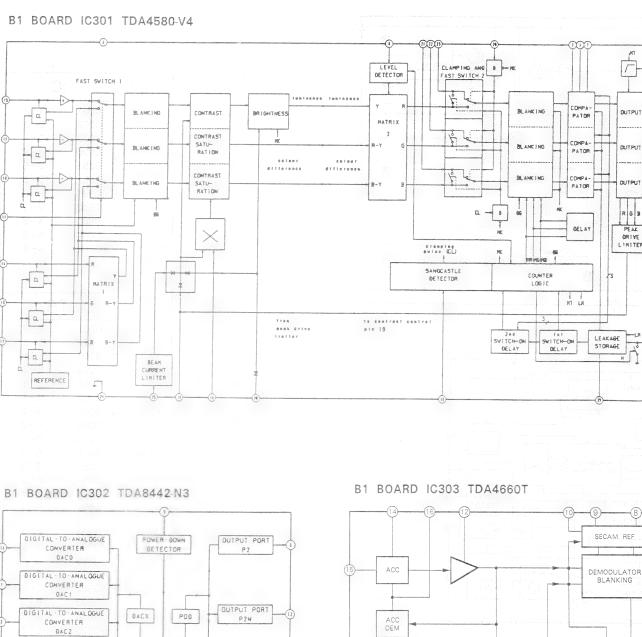


- · Pattern from the side which enables seeing.
- BERREY: Pattern of the rear side.



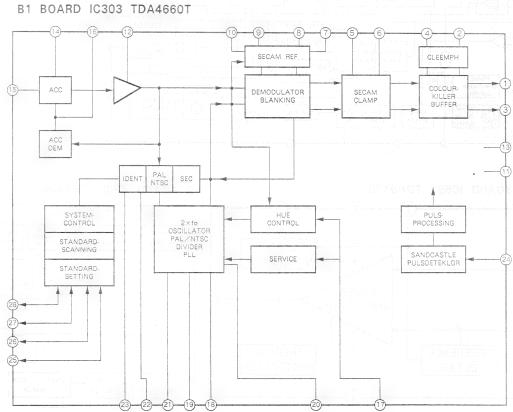


DIGITAL - TO - ANALOGUE CONVERTER



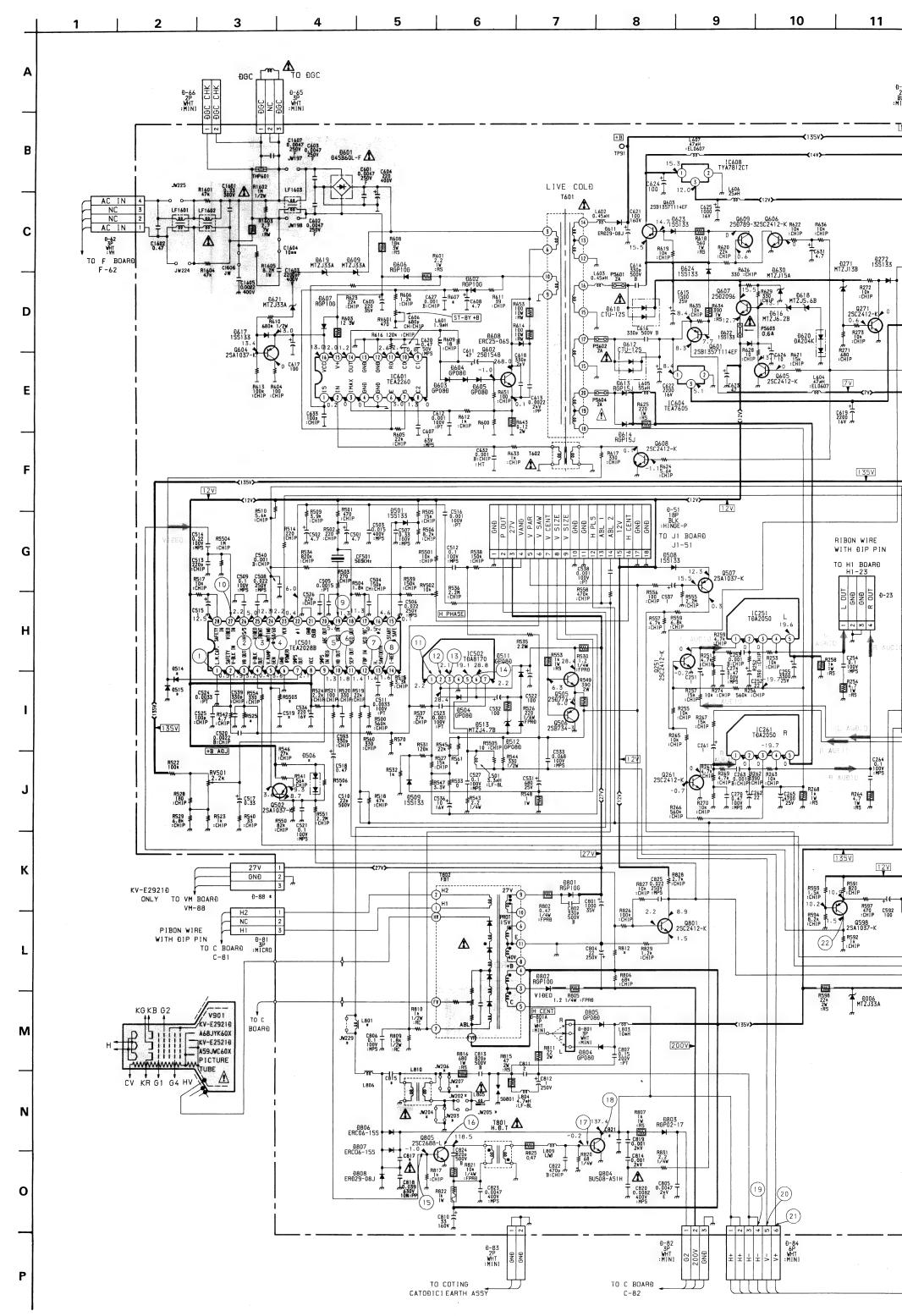
OUTPUT PORT

SLAVE

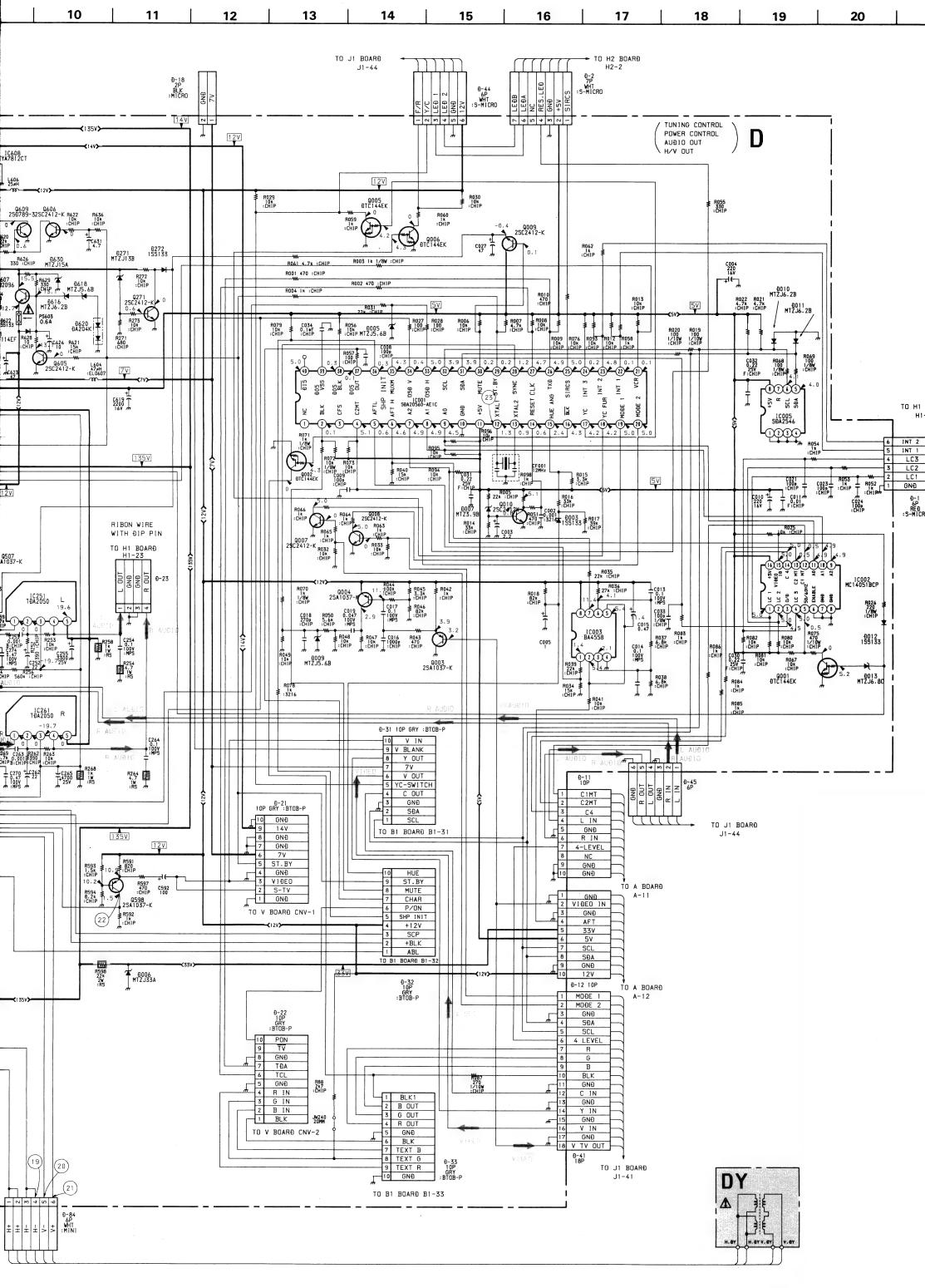


PATOR

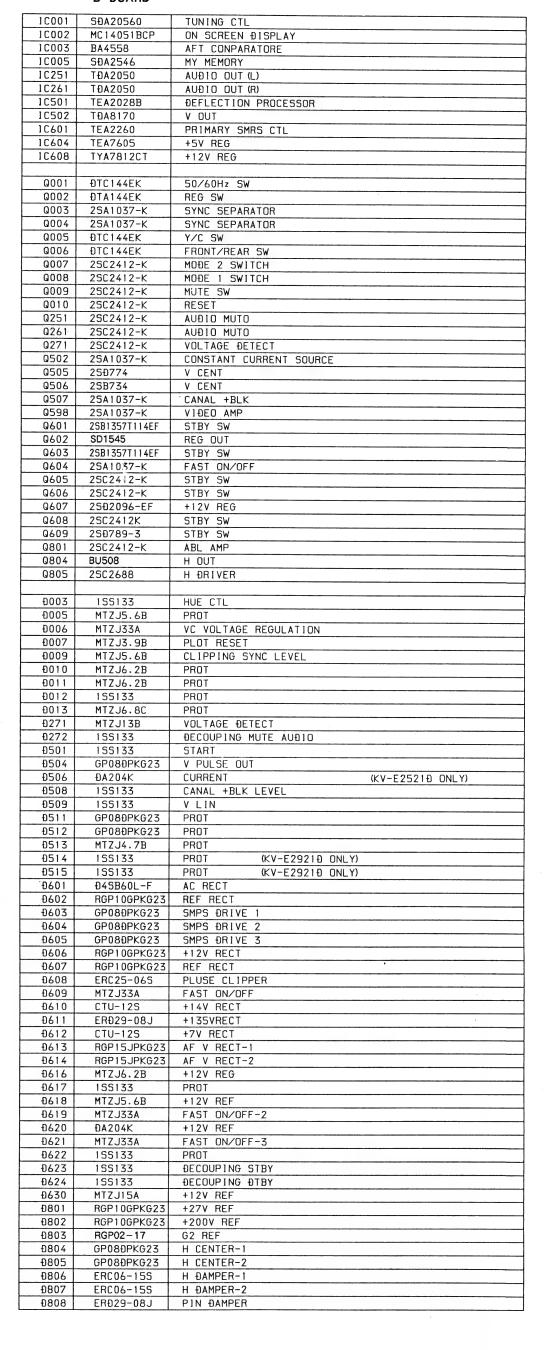
PEAK ORIVE LIMITER

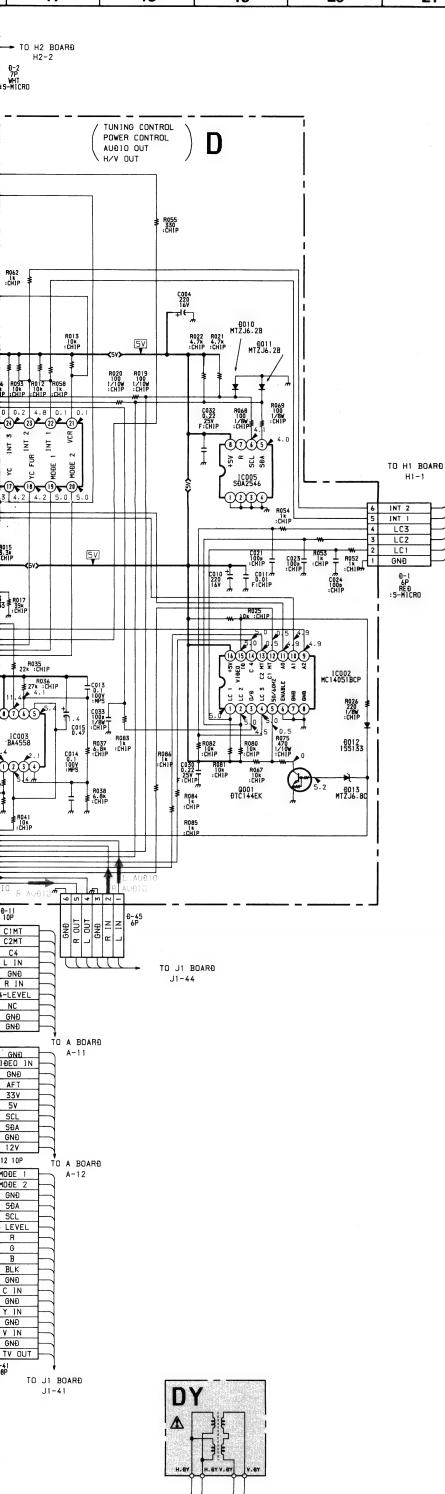


-51



D BOARD





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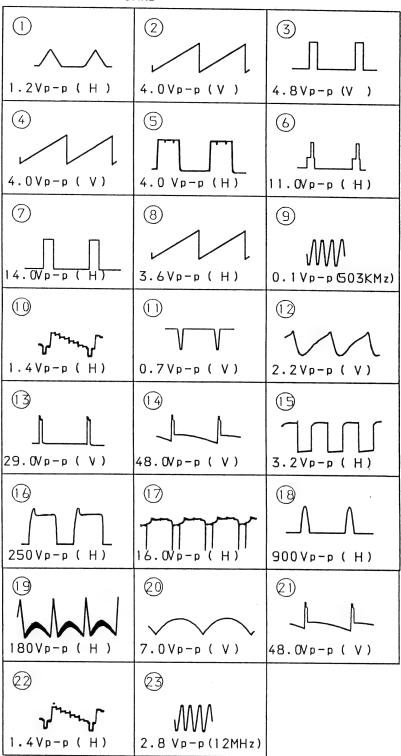
R5

R5

#### BOARD

A20560	TUNING CTL
14051BCP	ON SCREEN DISPLAY
4558	AFT CONPARATORE
A2546	MY MEMORY
A2050	AUÐIO OUT (L)
A2050	AUÐIO OUT (R)
A2028B A8170	DEFLECTION PROCESSOR V OUT
A2260	PRIMARY SMRS CTL
A7605	+5V REG
A7812CT	+12V REG
C144EK	50/60Hz SW
A144EK	REG SW
A1037-K	SYNC SEPARATOR
A1037-K	SYNC SEPARATOR
C144EK	Y/C SW
C144EK	FRONT/REAR SW
C2412-K	MOĐE 2 SWITCH
C2412-K	MOĐE 1 SWITCH
C2412-K C2412-K	MUTE SW RESET
C2412-K	AUÐIO MUTO
C2412-K	OTUM OLGUA
C2412-K	VOLTAGE DETECT
A1037-K	CONSTANT CURRENT SOURCE
Đ774	V CENT
B734	V CENT
A1037-K	CANAL +BLK
A1037-K	VIĐEO AMP
B1357T114EF	STBY SW
1545	REG OUT
31357T114EF	STBY SW
A10.37-K	FAST ON/OFF
C2412-K	STBY SW
C2412-K	STBY SW
02096-EF C2412K	+12V REG
D789-3	STBY SW
C2412-K	ABL AMP
508	H OUT
C2688	H DRIVER
22000	
SS133	HUE CTL
TZJ5.6B	PROT
TZJ33A	VC VOLTAGE REGULATION
TZJ3.9B	PLOT RESET
TZJ5.6B	CLIPPING SYNC LEVEL
TZJ6.2B	PROT
TZJ6.2B	PROT
SS133	PROT
TZJ6.8C	PROT
TZJ13B SS133	VOLTAGE ĐETECT ĐECOUPING MUTE AUĐIO
SS133	START
P08ĐPKG23	V PULSE OUT
A204K	CURRENT (KV-E2521D ONLY)
SS133	CANAL +BLK LEVEL
SS133	V LIN
P080PKG23	PROT
P08ĐPKG23	PROT
TZJ4.7B	PROT
SS133	PROT (KV-E2921Ð ONLY)
SS133 4SB60L-F	PROT (KV-E2921Ð ONLY)  AC RECT
GP10GPKG23	REF RECT
P08DPKG23	SMPS DRIVE 1
P08DPKG23	SMPS DRIVE 2
P08ĐPKG23	SMPS DRIVE 3
GP10GPKG23	+12V RECT
GP10GPKG23	REF RECT
RC25-06S	PLUSE CLIPPER
TZJ33A	FAST ON/OFF
TU-125	+14V RECT
RĐ29-08J TU-12S	+135VRECT +7V RECT
GP15JPKG23	AF V RECT-1
GP15JPKG23	AF V RECT-2
TZJ6.2B	+12V REG
SS133	PROT
TZJ5.6B	+12V REF
TZJ33A	FAST ON/OFF-2
A204K	+12V REF
TZJ33A	FAST ON/OFF-3
SS133	PROT
SS133	ĐECOUPING STBY
SS133	ĐECOUPING ĐTBY
TZJ15A	+12V REF
GP10GPKG23 GP10GPKG23	
GP00GPKG23	+200V REF G2 REF
P080PKG23	H CENTER-1
P08DPKG23	H CENTER-2
RC06-155	H ĐAMPER-1
RC06-155	H ĐAMPER-2
RĐ29-08J	PIN ĐAMPER

#### • WAVEFORMS D BOARD

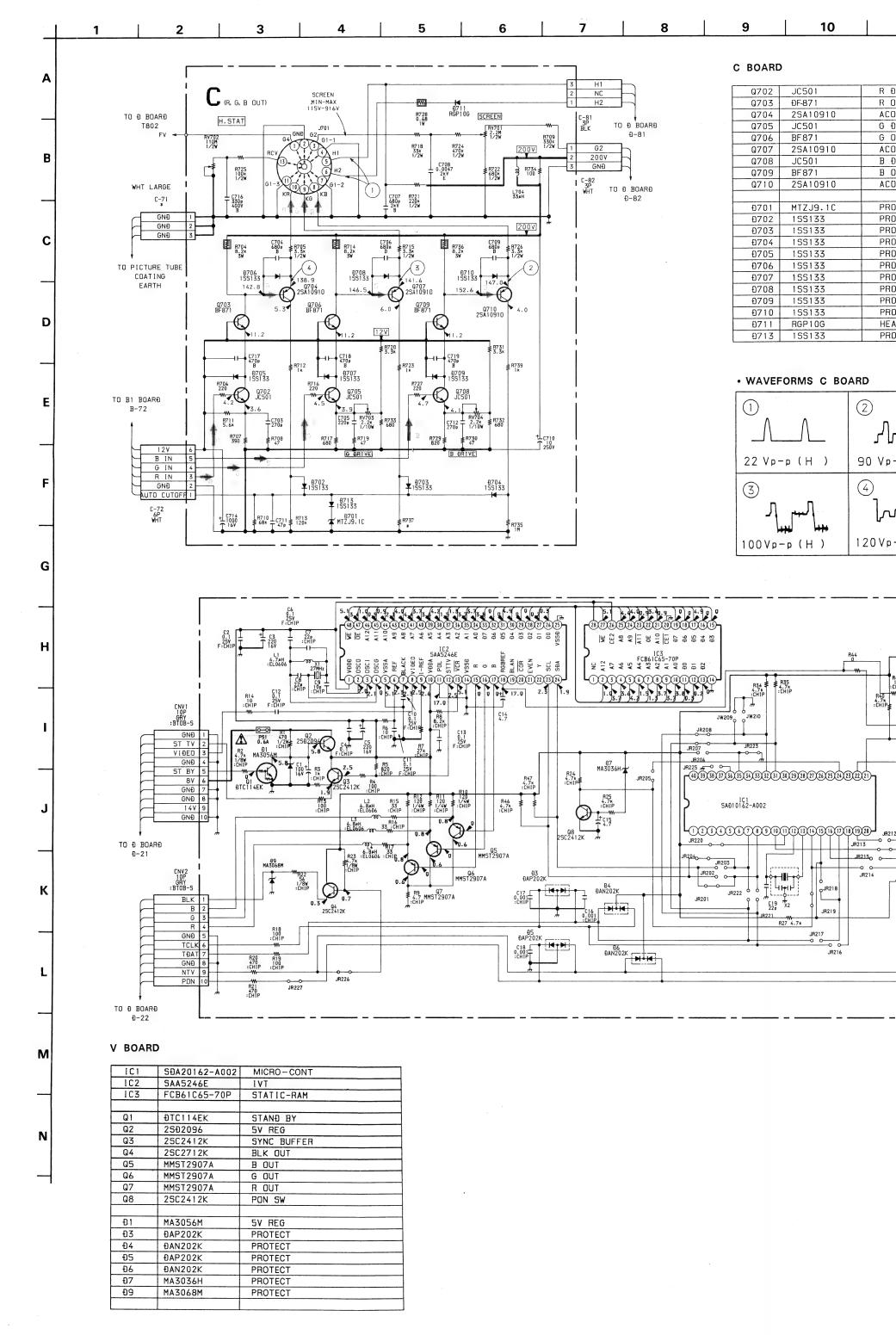


## D BOARD \*MARK

	KV-E2521Đ	KV-E2921Đ
C519	0.47MF	
		0.33MF
C815	1 MF	0.82MF
C817	0.015MF	0.017MF
C821	680P 2K	470P 2K
£506	ĐA204K	-
Ð514	JW	155133
Ð515	_	155133
Ð-88	-	3P
JW202		X
JW203	Χ	_
JW204	Χ .	-
JW205	_	Χ
JW206	X	-
JW207	X	-
JW229	Χ	-
JW216	X	-
L801	_	3.9MMH
R525	1K	_
R561	_	270K
R570		680
R607	4.7K	5.6K
R812	68K	51K
R5503	4.7	10
R5506	_	12K

- NOT MOUNTED

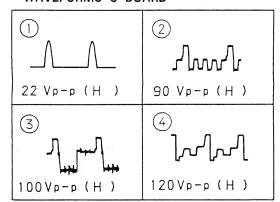
 $\times$  TO BE MOUNTED



#### C BOARD

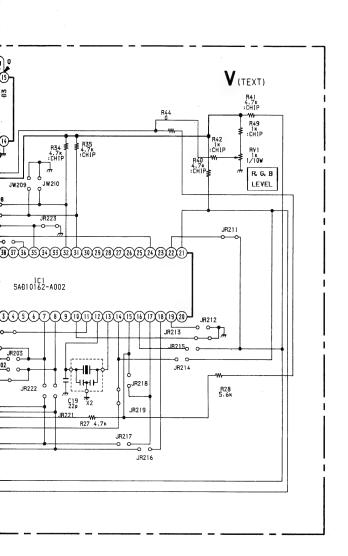
Q702	JC501	R ÐRIVE
Q703	ÐF-871	R OUT
0704	25A10910	ACO MEASURING
0705	JC501	G DRIVE
Q706	BF871	G DUT
Q707	2SA10910	ACO MEASURING
Q708	JC501	B DRIVE
Q709	BF871	B OUT
Q710	2SA10910	ACD MEASURING
Đ701	MTZJ9.1C	PROTECT
Đ702	155133	PROTECT
£1703	155133	PROTECT
Đ704	155133	PROTECT
Đ705	155133	PROTECT
Đ706	155133	PROTECT
Đ707	155133	PROTECT
Đ708	155133	PROTECT
Đ709	155133	PROTECT
Đ710	155133	PROTECT
Đ711	RGP10G	HEATING VOLTAGE REC
Đ713	155133	PROTECT

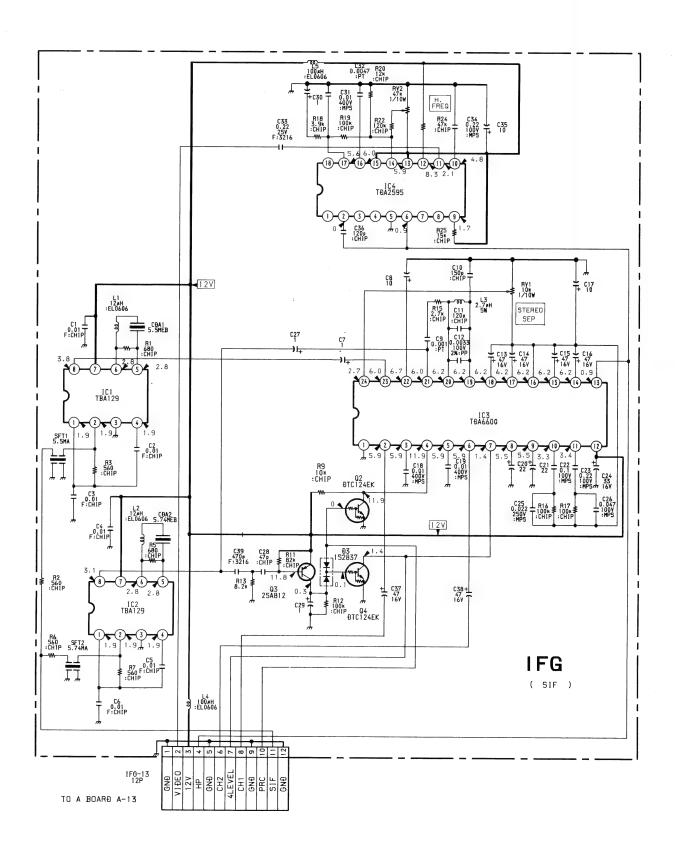
#### • WAVEFORMS C BOARD



#### C BOARD \*MARK

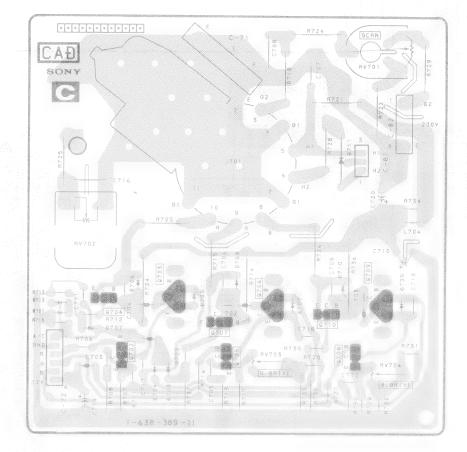
	KV-E2521Đ	KV-E2921Đ
C-71	2P	3P
R737	820K	470K

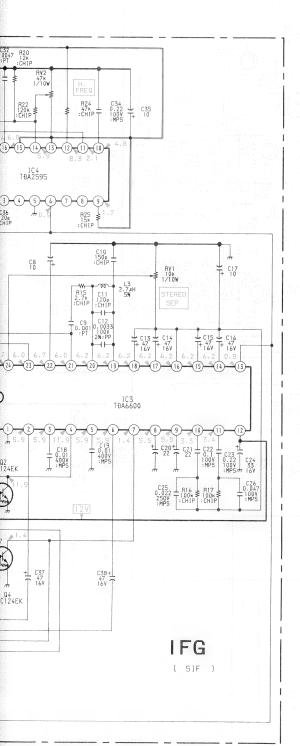




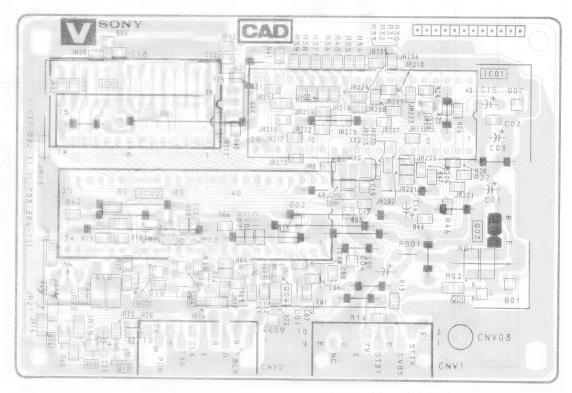


-C BOARD-

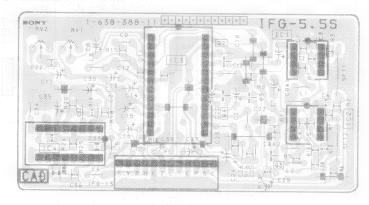




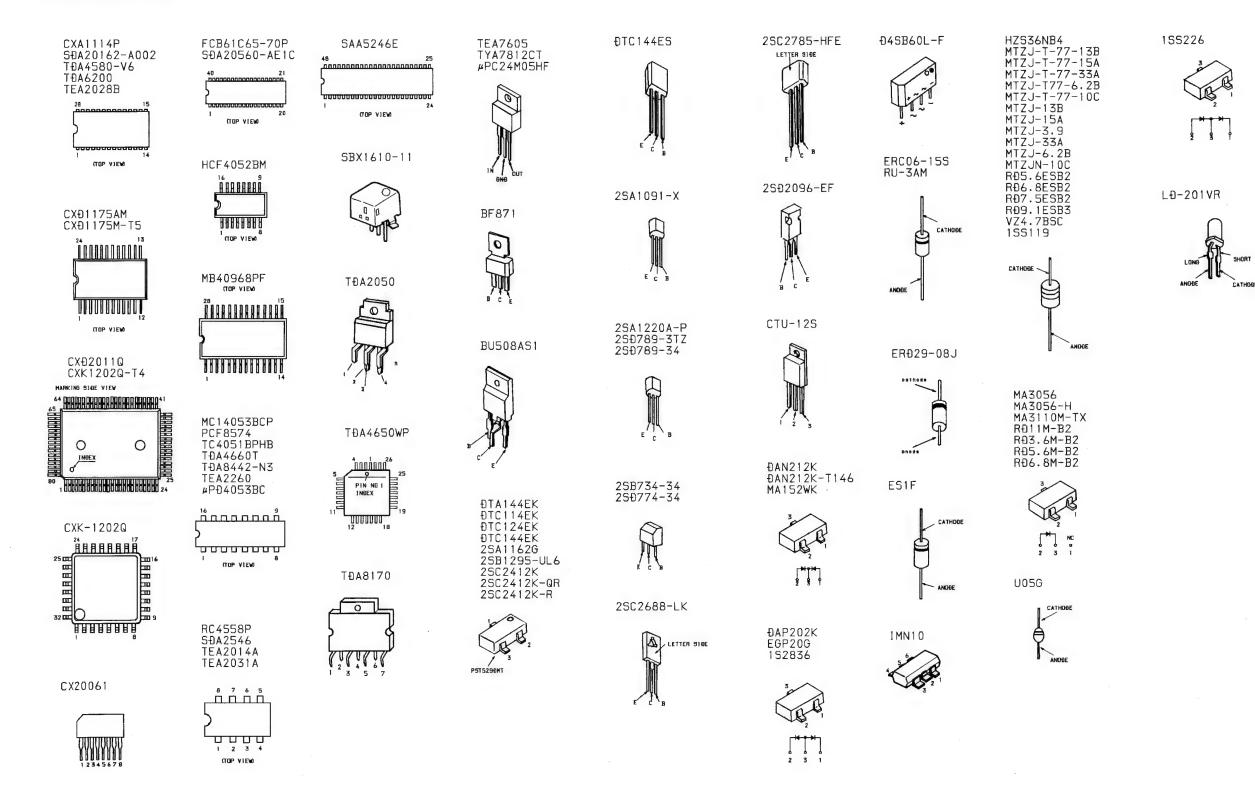
## -V BOARD-



#### -IFG BOARD-



#### 5-4. SEMICONDUCTORS



## SECTION 6 **EXPLODED VIEWS**

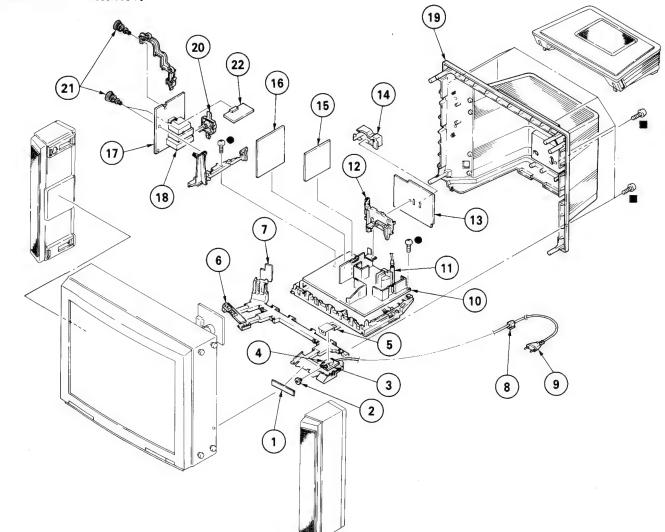
- NOTE:
   Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " \* are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety.

Replace only with part number specified.

#### (1) CHASSIS

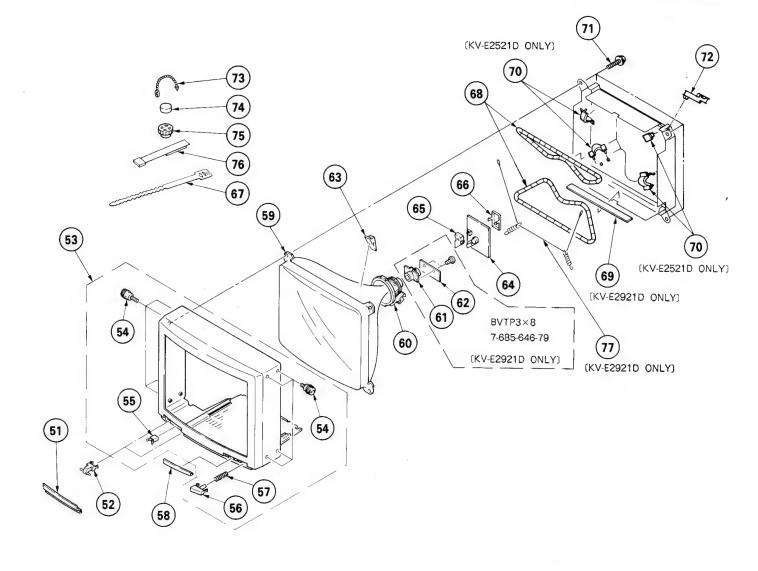
- ●:BVTP3×12 7-685-648-79
- ■: BVTP4×16 7-685-663-79



REF.NO. PART NO.	DESCRIPTION	REMARK	REF. N	O. PART NO.	DESCRIPTION	REMARK
1 *1-638-392-11 2 4-201-011-01 4-386-611-01 3 *1-638-390-11 4 A 1-571-433-11 5 4-200-274-01 6 *1-638-391-11 7 *1-638-393-11 8 A 4-389-201-02 9 A 1-590-501-11 10 A-1642-031-A A-1642-032-A 11 A 1-439-416-11	H2 BOARD CAP, SWITCH (KV-E2521D ONLY) COVER, SWITCH (KV-E2921D ONLY) F BOARD SWITCH, PUSH (AC POWER) COVER, POWER SWITCH H1 BOARD J2 BOARD HOLDER, AC CORD CORD, POWER(WITH NOISE FILTER) D BOARD, COMPLETE (KV-E2521D ONL D BOARD, COMPLETE (KV-E2921D ONL	Y) Y)	12 13 14 15 16	*4-386-624-11 A-1651-018-A A-1651-020-A 4-200-014-01 A-1645-013-A A-1621-013-A A-1632-022-A A-1632-022-A A-1465-301-11 4-201-017-02 4-200-026-04 *4-386-617-01 4-386-618-01		ONLY) ONLY)

#### (2) PICTURE TUBE

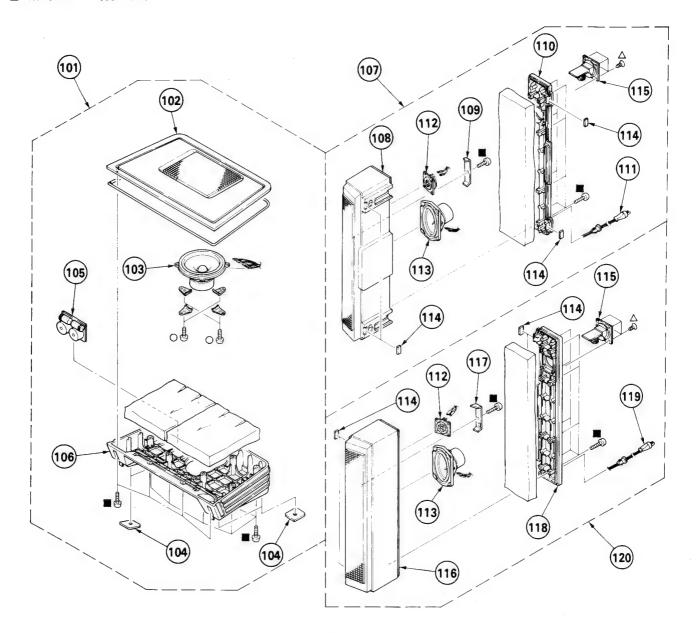
The components identified by shading and mark A are critical for safety. Replace only with part number specified.



REF.NO	PART NO.	DESCRIPTION	REMARK	REF. N	D. PART NO.	DESCRIPTION	REMARK
51 52 53 54 55 56 57 58	X-4200-001-5 3-703-035-11 X-4201-005-5 X-4200-008-8 X-4374-104-1	DOOR ASSY, CONTROL (KV-E2521D ON LID ASSY, CONTROL (KV-E2921D ONL SHAFT, LID CABINET ASSY) (WITH BEZEL ASSY) (KV-E252 CABINET ASSY) (WITH BEZEL ASSY) (KV-E292 SCREW (B) ASSY, ORNAMENTAL CATCHER, PUSH BUTTON, POWER SPRING WINDOW, ORNAMENTAL	Y) 54-57 1D ONLY) 54-57	66 67 68	*A-1638-013-A *4-379-167-01 *4-379-160-01 3-701-007-00 & 1-460-091-11 & 1-426-398-11 4-389-291-01 *4-385-916-01	VM BOARD (KV-E2921D ONLY) SPACER, DY C BOARD, COMPLETE (KV-E2521D ONLY C BOARD, COMPLETE (KV-E2921D ONLY COVER (MAIN), CV COVER (REAR LID), CV BAND, BINDING COIL, DEGAUSS (KV-E2521D ONLY) COIL, DEMAGNETIZATION (KV-E2921D CUSHION (KV-E2921D ONLY) HOLDER (D) (KV-E2521D ONLY) SCREW (M), PT	()
60 A	\ 1-451-311-21 \ 1-451-311-21	PICTURE TUBE (A59JWC60X) (KV-E252 PICTURE TUBE (A68JYK60X) (KV-E292 DEFLECTION YOKE (Y25FXA) (KV-E252 DEFLECTION YOKE (Y29FXA) (KV-E292 NECK ASSY, PICTURE TUBE (NA-308) (KV-E292	ID ONLY) ID ONLY) ID ONLY)	72 73 74 75 76	*4-387-216-01 4-308-870-00 1-452-032-00 1-452-094-00 X-4387-214-1	HOLDER, LEAD CLIP, LEAD WIRE MAGNET, DISK; 10MM ø MAGNET, ROTATABLE DISK; 15MM ø PERMALLOY ASSY, CORRECTION	

#### (3) SPEAKER

■: BVTP4×16 7-685-663-79 ○: BVTP4×10 7-685-660-79 △: KTP3×12 7-685-248-19



REF. NO	. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION RE	EMARK
101 102 103 104 105 106 107	*A-1678-001-A X-4200-004-2 1-544-192-11 4-200-009-01 1-236-549-11 4-200-027-01 *A-1678-012-A	BOX ASSY (LEFT), SPEAKER	102-106 108-115 10 ONLY) 108-115 110 ONLY)	112 113 114 115 116 117 118	1-575-025-11 1-544-203-11 1-544-204-11 4-200-006-01 1-236-510-21 X-4201-004-1 X-4200-005-1 *4-200-004-02 4-201-006-01 4-200-029-01	CORD, SPEAKER (WITH PLUG) SPEAKER SPEAKER CUSHION, FOOT NETWORK, DIVIDING BOX ASSY (RIGHT), SIDE (KV-E2521D OBOX ASSY (R), SIDE (KV-E2921D ONLY) BRACKET (R), SPEAKER PANEL (RIGHT), REAR (KV-E2521D ONLY) PANEL (R), REAR (KV-E2921D ONLY)	
108 109 110	X-4201-003-1 X-4200-006-1 *4-200-003-02 4-201-007-01 4-200-030-01	BOX ASSY (LEFT), SIDE (KV-E2521D BOX ASSY (L), SIDE (KV-E2921D ON BRACKET (L), SPEAKER PANEL (LEFT), REAR (KV-E2521D ON PANEL (L), REAR (KV-E2921D ONLY)	ONLY) (LY)	119 120	1-575-024-11 *A-1678-010-A *A-1678-003-A	CORD, SPEAKER (WITH PLUG) BOX ASSY (RIGHT), SPEAKER (KV-E2521D	2-119

# SECTION 7 ELECTRICAL PARTS LIST

**B1** 

NOTE:

The components identified by shading and mark  $\stackrel{\wedge}{\Delta}$  are critical for safety.
Replace only with part number specified.

 Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

 All variable and adjustable resistors have characteristic curve B, unless otherwise noted. When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

• MF : μF, PF : μμF

• MMH : mH, UH : μH

RESISTORS

· All resistors are in ohms

• F : nonflammable

REF.N	NO. PART NO.	DESCRIPTIO	N -		REMARK	REF. NO	D. PART NO.	DESCRIPTI	ON		REMARK
	A-1621-013- A-1621-015-	A B1 BOARD, C1  ************ A B1 BOARD, C1  *************	OMPLETE ( ******* OMPLETE ( ******	KV-E2521D KV-E2921D	ONLY)	C344 C345 C346 C347	1-124-791-1 1-137-094-1 1-137-033-1 1-137-098-1			20% 10% 10% 10%	50V 100V 100V 100V
	*1-565-393-1 *1-568-878-5 *1-568-881-5	1 CONNECTOR, I 1 PIN, CONNECT 1 PIN, CONNECT APACITOR>	BOARD TO 1 TOR 3P (K' TOR 6P	BOARD V-E2921D (	DNLY)	C348 C349 C350 C351 C352	1-137-102-11 1-137-102-11 1-124-902-00 1-137-102-11 1-164-232-11	FILM FILM ELECT FILM	0.022MF 0.022MF 0.47MF	10% 10% 20% 10%	250V 250V 50V 250V 250V
C301 C302 C303 C304 C305	1-137-031-11 1-137-031-11 1-124-122-11 1-137-031-11	FILM FILM ELECT FILM CERAMIC CHIP	0.22MF 0.22MF 100MF	10% 10% 20% 10% 10%	100V 100V 50V 100V 50V	C353 C354 C356 C357 C358	1-126-101-11 1-164-232-11 1-126-101-11 1-164-232-11 1-164-232-11	ELECT CERAMIC CHI ELECT CERAMIC CHI CERAMIC CHI	100MF P 0.01MF 100MF P 0.01MF P 0.01MF	20%	16V 50V 16V 50V 50V
C306 C307 C308 C309 C310	1-124-902-00 1-124-902-00 1-124-902-00 1-124-902-00 1-137-098-11	ELECT ELECT ELECT	0.47MF 0.47MF 0.47MF 0.47MF 0.1MF	20% 20% 20% 20% 10%	50V 50V 50V 50V 100V	C360 C361 C363 C371 C372	1-164-232-11 1-164-232-11 1-163-033-00 1-164-232-11 1-124-477-11	CERAMIC CHI CERAMIC CHI CERAMIC CHI CERAMIC CHI ELECT	P 0.01MF P 0.01MF P 0.022MF P 0.01MF 47MF	20%	50V 50V 50V 50V 16V
C311 C312 C313 C314 C315	1-137-098-11 1-124-902-00 1-124-902-00 1-124-902-00 1-124-791-11	ELECT ELECT FLECT	0.1MF 0.47MF 0.47MF 0.47MF 1MF	10% 20% 20% 20% 20%	100V 50V 50V 50V 50V	C373 C374 C375 C376 C377	1-124-477-11 1-163-090-00 1-163-090-00 1-124-034-51 1-124-119-00	CERAMIC CHI	P 7PF	20% 0.25PF 0.25PF 20% 20%	16V 50V 50V 16V 16V
C316 C317 C318 C319 C320	1-124-927-11 1-164-232-11 1-124-927-11 1-124-927-11 1-124-910-11	CERAMIC CHIP ELECT ELECT	4.7MF 0.01MF 4.7MF 4.7MF 47MF	20% 20% 20% 20%	50V 50V 50V 50V 50V	C378 C379 C380 C381 C382	1-163-090-00 1-163-090-00 1-163-105-00 1-163-121-00	ELECT CERAMIC CHIL CERAMIC CHIL CERAMIC CHIL CERAMIC CHIL	P 7PF P 7PF P 33PF	20% 0.25PF 0.25PF 5% 5%	16V 50V 50V 50V 50V
C321 C322 C323 C324 C325	1-164-232-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF	10%	63V 50V 50V 50V 25V	C383 C384 C385 C386 C387	1-163-197-00 1-163-103-00 1-163-093-00 1-163-117-00 1-163-113-00	CERAMIC CHIE CERAMIC CHIE CERAMIC CHIE CERAMIC CHIE CERAMIC CHIE	10PF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C326 C327 C328 C329 C330	.1=163-038-00		180PF	20% 20% 5%	50V 50V 25V 50V 50V	C388 C389 C390 C391 C392	1-164-232-11 1-163-097-00 1-123-875-11 1-123-875-11 1-123-875-11	CERAMIC CHIP CERAMIC CHIP ELECT ELECT ELECT	0.01MF 15PF 10MF 10MF 10MF	5% 20% 20% 20%	50V 50V 50V 50V 50V
C331 C332 C333 C335 C337	1-163-103-00 1-163-119-00	FILM FILM CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	27PF 120PF	10% 10% 5% 5% 5%	100V 100V 50V 50V 50V	C395 C396	1-126-101-11	ELECT	100MF 100MF 100MF 100MF 1MF	20% 20% 20%	16V 16V 16V 16V 50V
C338 C339 C340 C341 C342	1-137-102-11 1-164-232-11 1-126-103-11 1-164-232-11 1-124-791-11	CERAMIC CHIP ( ELECT A CERAMIC CHIP (	170MF	10% 20% 20%	50V 16V	C399 C1301 C1302	1-163-038-00 1-163-105-00 1-163-235-11	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	33PF 22PF	5% 5%	50V 25V 50V 50V 25V
C343	1-163-038-00	CERAMIC CHIP (	).1MF		i	C1304 C1305		ELECT ELECT	10MF 100MF		50V 16V

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	PART NO.					PART NO.		
C1306 C1307 C1308 C1309 C1310	1-163-038-00 1-163-038-00 1-163-038-00 1-164-232-11 1-164-232-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF		25V 25V 25V 50V 50V	FL301 FL302 FL303 FL305	1-236-620-11 1-236-620-11 1-236-620-11 1-236-164-11	FILTER, LOW P FILTER, LOW P FILTER, LOW P ENCAPSULATED	ASS ASS ASS COMPONENT
C1311 C1312 C1313 C1314 C1315	1-163-038-00 1-163-038-00 1-163-038-00 1-163-109-00 1-163-038-00	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 47PF CERAMIC CHIP 0.1MF	5%	25V 25V 25V 50V 25V	1 0001	8-759-510-48 8-759-510-47	IC TDA4580-V6 IC TDA8442N3 IC TDA4660T IC TDA4650WP	i
C1316 C1317 C1318 C1319 C1320	1-163-141-00 1-163-038-00 1-163-038-00 1-164-232-11 1-164-232-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	5%	50V 25V 25V 50V 50V	1C305 1C306 1C308 1C310	8-752-006-12 8-752-337-07	1C UPC24M05HF 1C HCF4052BM 1C CX20061 1C CXD2011Q 1C MB40968PF	
C1321 C1322 C1323 C1324 C1325	1-164-232-11 1-164-232-11 1-164-232-11 1-163-033-00 1-163-038-00	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.1MF		50V 50V 50V 50V 25V	10312 10313 10315	8-752-338-45 8-752-338-45 8-752-334-55	IC CXK1202Q IC CXK1202Q	
C1326 C1327	1-164-232-11	CERAMIC CHIP 0.01MF	5%	50V 50V	9	<01	L>	
		CERAMIC CHIP 0.01MF CERAMIC CHIP 82PF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.01MF			L303 L304 L305	1-408-405-00 1-404-554-11 1-408-405-00 1-408-402-00	INDUCTOR COIL INDUCTOR INDUCTOR INDUCTOR INDUCTOR	
C1331 C1333	1-164-187-11 1-126-101-11	CERAMIC CHIP 390PF ELECT 100MF	2% 20%	50V 16V	L306	1-408-405-00 1-404-495-00	INDUCTOR	4.7UH
	1-141-418-11				L309 L310 L312 L313	1-408-415-00 1-408-419-00 1-404-495-00 1-404-554-11	COIL INDUCTOR INDUCTOR COIL COIL	33UH 68UH
CT302	1-141-418-11	CAP, ADJ			L314 L320	1-408-409-30 1-408-405-00	INDUCTOR INDUCTOR	10UH 4.7UH
D301	<dio 8-719-951-22</dio 	DIODE IMN10			L321 L323 L325	1-408-405-00 1-408-398-00 1-408-405-00	INDUCTOR INDUCTOR INDUCTOR	4.7UH 1.2UH 4.7UH
D304 D305 D307 D308	8-719-989-26 8-719-989-26 8-719-106-62 8-719-989-26	DIODE DAN212K DIODE DAN212K DIODE RD11M-B2 DIODE DAN212K			L326 L327		INDUCTOR INDUCTOR INDUCTOR	
D309 D310 D311	8-719-989-26 8-719-106-62 8-719-106-62	DIODE DAN212K DIODE RD11M-B2 DIODE RD11M-B2				<10	LINK>	
D312 D314	8-719-100-02 8-719-106-62 8-719-800-76	DIODE RD11M-B2 DIODE 1SS226			PS3014	1-532-605-91	LINK, IC (ICI	P-N10) 0.4A
D318 D319 D320	8-719-800-76 8-719-800-76	DIODE 1SS226 DIODE 1SS226				< T R A	NSISTOR>	
D321 D322	8-719-800-76 8-719-105-91 8-719-400-18	DIODE 1SS226 DIODE RD5.6M-B2 DIODE MA152WK			Q301 Q302 Q303 Q304	8-729-901-78 8-729-901-78 8-729-901-78 8-729-901-78	TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29	SC2412K-R SC2412K-R SC2412K-R
D330 D331 D333 D336 D340	8-719-989-26 8-719-914-44 8-719-951-22 8-719-400-18 8-719-800-76	DIODE DAN212K DIODE DAP202K DIODE IMA152WK DIODE MA152WK DIODE 1SS226			Q305 Q306 Q307 Q308	8-729-901-06 8-729-901-78 8-729-901-78 8-729-901-00	TRANSISTOR DETRANSISTOR 25 TRANSISTOR 25 TRANSISTOR DETRANSISTOR DETAILS	SC2412K-R SC2412K-R
D341	8-719-989-26	DIODE DAN212K			Q310 Q311	8-729-901-00 8-729-901-00	TRANSISTOR D'TRANSISTOR D'	rc124EK
	<de1< td=""><td>.AY LINE&gt;</td><td></td><td></td><td>0320 0321</td><td>8-729-901-78 8-729-216-22</td><td>TRANSISTOR 25</td><td>SA1162-G</td></de1<>	.AY LINE>			0320 0321	8-729-901-78 8-729-216-22	TRANSISTOR 25	SA1162-G
DL301		DELAY LINE, Y			Q322 Q323 Q324	8-729-216-22 8-729-901-78 8-729-901-78	TRANSISTOR 29 TRANSISTOR 29 TRANSISTOR 29	SC2412K-R SC2412K-R
	< <b>F</b> 11	TER>			Q327 Q328	8-729-216-22 8-729-216-22	TRANSISTOR 29 TRANSISTOR 29	

The components identified by shading and mark  $ilde{\mathbb{A}}$  are critical for safety.

Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTI	ON 		REMARK	REF. NO	. PART NO.	DESCRIPTIO	N -			REMARK
Q329 Q330 Q331 Q332 Q333	8-729-216-22 8-729-901-78 8-729-216-22 8-729-216-22 8-729-901-00	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC2412K 2SA1162- 2SA1162- DTC124EK	−R G G		R312 R313 R314 R315 R316	1-216-019-0 1-216-019-0 1-216-019-0 1-216-023-0 1-216-081-0	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	56 82	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
Q334 Q335 Q336 Q337 Q338	8-729-901-00 8-729-901-78 8-729-901-78 8-729-901-78 8-729-216-22	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC2412K 2SC2412K 2SC2412K 2SA1162-	R R R G		R317 R318 R319 R320	1-216-033-00 1-216-073-00 1-216-073-00 1-216-198-00	METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE  METAL GLAZE	22K 220 10K 10K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/8W	
Q339 Q340 Q341 Q342 Q343	8-729-901-78 8-729-901-78 8-729-901-78 8-729-901-78 8-729-901-78	TRANSISTUR	2SC2412K 2SC2412K	-R -R -R		R323 R324 R325	1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 2.2K 1K 220 22	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q344 Q345 Q346 Q347 Q348	8-729-901-78 8-729-901-78 8-729-901-78 8-729-901-78 8-729-901-00	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC2412K 2SC2412K 2SC2412K DTC124EK	- R - R - R		R327 R328 R329 R330 R331	1-216-009-00 1-216-009-00 1-216-031-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22 22 180 180 180	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
Q355		TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SA1162- 2SC2412K 2SC2412K 2SC2412K	- R G- R - R - R		R332 R333 R335 R336 R337	1-216-182-00 1-216-033-00 1-216-101-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 150K 10K 68K	5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W	
Q357 Q358 Q359 Q360	8-729-216-22 8-729-901-78	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SA1162-0 2SC2412K- 2SA1162-0 2SC2412K-	R R		R338 R339 R340 R341 R342	1-216-085-00 1-216-061-00 1-216-103-00 1-216-115-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 3.3K 180K 560K 6.8K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q363 Q364	8-729-901-78 8-729-901-78 8-729-901-78 8-729-216-22 8-729-216-22	TRANSISTOR TRANSISTOR	2802412K- 2802412K- 2841162-0	R		R343	1-216-043-00 1-216-057-00	METAL GLAZE	560	5% 5%	1/10W (KV-E2521 1/10W	
4208	8-729-901-78 8-729-901-78 8-729-901-78 8-729-901-78 8-729-901-78	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2502412K- 2502412K-	R R	, 1 1 1 1 1 1 1 1 1 1 2 1 2 1 1 2 1 1 1 1	R344 R345 R346 R347 R348	1-216-089-00 1-216-097-00 1-216-033-00 1-216-121-00 1-216-001-00	METAL GLAZE METAL GLAZE	47K 100K 220 1M 10	5% 5% 5%	(KV-E2921) 1/10W 1/10W 1/10W 1/10W 1/10W	U UNLI)
0372 0373 01301	8-729-901-78 8-729-901-78 8-729-901-00 8-729-901-00 8-729-901-78	TRANSISTOR (	2SC2412K- DTC124EK DTC124EK	R	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R350 R351 R352 R353	1-216-001-00 1-216-001-00 1-216-184-00 1-216-184-00 1-216-069-00 1-216-073-00				1/10W 1/10W 1/8W 1/8W 1/10W 1/10W	
Q1303	8-729-901-00 <rfs< td=""><td>TRANSISTOR I</td><td>OTC124EK</td><td></td><td></td><td>R354 R355 R356</td><td>1-216-037-00 1-216-033-00 1-216-049-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>330 220 1K</td><td></td><td>1/10W 1/10W 1/10W</td><td></td></rfs<>	TRANSISTOR I	OTC124EK			R354 R355 R356	1-216-037-00 1-216-033-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	330 220 1K		1/10W 1/10W 1/10W	
JR304 JR305		METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 1/10W 5% 1/8W 5% 1/10W		R358 R359	1-216-061-00 1-216-037-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 330 470	5% 5% 5% 5%	1/10W 1/10W 1/10W	
JR390 1 JR391 1 R301 1 R302 1	1-216-295-00 1-216-295-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0	5% 1/10W 5% 1/10W		R362 R363 R364	1-216-065-00 1-216-065-00 1-216-069-00 1-216-033-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 6.8K 220 270	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R303 1 R304 1 R305 1	1-216-033-00 1-216-081-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 1	5% 1/10W 1% 1/10W 1% 1/10W		R367 R368 R369	1-216-069-00 1-216-069-00 1-216-071-00 1-216-071-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	6.8K 6.8K 8.2K 8.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R310 I	-216-025-00 -216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100K 100 100	% 1/10W % 1/10W % 1/10W % 1/10W		R371 R372	1-216-049-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	

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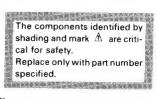
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R374 1-216-033-00 R375 1-216-043-00 R376 1-216-057-00 R377 1-216-081-00 R378 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5 560 5 2.2K 5 22K 5 22K 5	% 1/10W % 1/10W % 1/10W	R1341 1-216- R1342 1-216-	-025-00 META -667-11 META -025-00 META	L GLAZE	100 5 4.7K 0 100	5% 0.50% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R379 1-216-081-00 R380 1-216-073-00 R381 1-216-073-00 R382 1-216-093-00 R383 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 5 10K 5 10K 5 68K 5 10K 5	% 1/10W % 1/10W	R1344 1-216- R1345 1-216- R1346 1-216- R1347 1-216-	-057-00 META -077-00 META -025-00 META -025-00 META	L GLAZE L GLAZE L GLAZE	2.2K 5	5% 5% 5%	1/10W 1/10W 1/10W 1/10W
R384 1-216-093-00 R385 1-216-073-00 R386 1-216-093-00 R387 1-216-065-00 R388 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	68K 5 10K 5 68K 5 4.7K 5 1.5K 5	% 1/10W % 1/10W % 1/10W	R1349 1-216- R1350 1-216- R1351 1-216- R1352 1-216-	-075-00 META -039-00 META -071-00 META -041-00 META	L GLAZE L GLAZE L GLAZE L GLAZE L GLAZE	390 8.2K 470	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R389 1-216-049-00 R390 1-216-049-00 R391 1-216-097-00 R392 1-216-097-00 R393 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5 1K 5 100K 5 100K 5 100K 5	% 1/10W % 1/10W	R1354 1-216- R1355 1-216- R1356 1-216- R1357 1-216-	-071-00 META -045-00 META -055-00 META -049-00 META	L GLAZE L GLAZE L GLAZE L GLAZE L GLAZE	680 1.8K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R394 1-216-065-00 R395 1-216-097-00 R396 1-216-097-00 R397 1-216-053-00 R398 1-216-035-00	METAL GLAZE METAL GLAZE	100K 5	% 1/10W	R1359 1-216- R1360 1-216- R1361 1-216- R1362 1-216-	-049-00 META -049-00 META -049-00 META -055-00 META	L GLAZE  L GLAZE  L GLAZE  L GLAZE  L GLAZE  L GLAZE  L GLAZE	1K 1K 1K 1.8K	5%	1/10W 1/10W 1/10W 1/10W 1/10W
R399 1-216-085-00 R403 1-216-035-00 R1301 1-216-065-00 R1302 1-216-089-00 R1303 1-216-089-00	METAL GLAZE METAL GLAZE	4.7K 5	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W	R1364 1-216- R1365 1-216- R1366 1-216- R1367 1-216-	-049-00 META -059-00 META -083-00 META -059-00 META	L GLAZE  L GLAZE  L GLAZE  L GLAZE  L GLAZE  L GLAZE	2.7K 27K 2.7K	5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
R1305 1-216-053-00 R1308 1-216-295-00 1-216-065-00	METAL GLAZE	1.5K 5 0 5	% 1/10W % 1/10W (KV-E2521D ONLY) % 1/10W	R1369 1-216- R1370 1-216-	-031-00 META -057-00 META	L GLAZE  L GLAZE  L GLAZE	180 2.2K	5% 5% 5%	1/10W 1/10W 1/10W
R1309 1-216-023-00 R1310 1-216-047-00 R1311 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE		(KV-E2921D ONLY) % 1/10W % 1/10W % 1/10W	R1372 1-216- R1373 1-216- R1374 1-216-	-047-00 META -035-00 META -202-00 META	L GLAZE L GLAZE L GLAZE L GLAZE	820 270 1.5K 2.7K	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W
R1312 1-216-045-00 R1313 1-216-043-00 R1314 1-216-085-00 R1315 1-216-049-00 R1316 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	560 5 33K 5	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W	R1377 1-216- R1378 1-216- R1379 1-216-	-748-11 META -748-11 META -748-11 META	AL GLAZE AL GLAZE AL GLAZE AL GLAZE AL GLAZE	39K 39K 39K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1319 1-216-049-00 R1320 1-216-641-11 R1321 1-216-073-00 R1322 1-216-067-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	1K 5	% 1/10W .50% 1/10W % 1/10W % 1/10W	R1383 1-216- R1384 1-216-	-089-00 META -053-00 META -089-00 META	L GLAZE L GLAZE L GLAZE L GLAZE L GLAZE L GLAZE	47K 1.5K 47K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1323 1-216-643-11 R1324 1-216-073-00 R1325 1-216-037-00 R1326 1-216-045-00 R1327 1-216-029-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 5 330 5 680 5 150 5	7.50% 1/10W 7. 1/10W 7. 1/10W 7. 1/10W 7. 1/10W	R1387 1-216- R1388 1-216- R1389 1-216-	-031-00 META -073-00 META -073-00 META	AL GLAZE AL GLAZE AL GLAZE AL GLAZE AL GLAZE	10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R1328 1-216-073-00 R1329 1-216-049-00 R1330 1-216-081-00 R1331 1-216-081-00 R1332 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 22K 22K 1K	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W	R1392 1-216- R1393 1-216- R1394 1-216-	-047-00 META -047-00 META -081-00 META	L GLAZE L GLAZE L GLAZE L GLAZE L GLAZE		5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W
R1333 1-216-077-00 R1334 1-216-075-00 R1335 1-216-043-00 R1336 1-216-057-00 R1337 1-216-657-11 R1338 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	15K 12K 560 2.2K 1.8K	% 1/10W % 1/10W % 1/10W % 1/10W % 1/10W % 1/10W	R1396 1-216- R1397 1-216- R1398 1-216-	-073-00 META -073-00 META -001-00 META	AL GLAZE AL GLAZE AL GLAZE AL GLAZE	10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W



REF. NO. PART NO. DESCRIPTION REMARK | REF. NO. PART NO. DESCRIPTION REMARK <VARIABLE RESISTOR> <TRANSISTOR> RV301 1-238-012-11 RES, ADJ, CARBON 1K 8-729-901-78 8-729-901-78 TRANSISTOR 2SC2412K-R TRANSISTOR 2SC2412K-R TRANSISTOR 2SC2412K-R TRANSISTOR 2SC2412K-R Q113 0114 8-729-901-78 8-729-901-78 Q115 Q116 <CRYSTAL> Q125 8-729-900-89 TRANSISTOR DTC144ES X301 1-567-307-11 OSCILLATOR, CRYSTAL 1-567-131-00 OSCILLATOR, CRYSTAL X302 0126 8-729-901-06 TRANSISTOR DTA144EK 8-729-901-78 TRANSISTOR 2SC2412K-R 0181 \*1-638-390-11 F BOARD <RESISTOR> 1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 5% 5% 5% METAL GLAZE \*1-580-690-11 PIN, CONNECTOR (PC BOARD) 4P \*4-341-752-01 EYELET 1/10W JR252 JR253 JR255 METAL GLAZE 1/8W METAL GLAZE METAL GLAZE 0 1/8W Λ <FIISE> JR256 1-216-296-00 METAL GLAZE 0 5% 1/8W F1601A 1-532-504-31 FUSE 4A/250V 1-533-230-11 HOLDER, FUSE; F1601 JR257 1-216-296-00 1-216-296-00 1-216-025-00 1-216-079-00 5% 5% 5% 5% 1/84 JR258 METAL GLAZE 1/8W 1/10W 1/10W R101 METAL GLAZE 100 R105 METAL GLAZE 18K <SWITCH> R107 1-216-081-00 METAL GLAZE 22K 1/10WS1701 № 1-571-433-11 SWITCH, PUSH (AC POWER) R108 1-216-079-00 METAL GLAZE 18K 1/10W 1-249-429-11 1-216-057-00 R110 10K 2.2K 82 CARBON \* 1/4WR111 METAL GLAZE 1/10W 1/10W R116 1-216-023-00 METAL GLAZE A-1632-022-A A BOARD, COMPLETE 1-216-085-00 R118 METAL GLAZE 33K 1/10W R128 1-216-027-00 1-216-057-00 METAL GLAZE METAL GLAZE METAL GLAZE \*1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH) \*1-564-881-11 PLUG, CONNECTOR 4P \*1-564-886-11 PLUG, CONNECTOR 9P \*1-565-393-11 CONNECTOR, BOARD TO BOARD 120 1/10W R129 2.2K 2.2K 5% 5% 5% 5% 1/10W R130 1-216-057-00 1/10W R157 METAL GLAZE 1-216-049-00 1K \*1-565-393-11 CONNECTOR, BOARD TO BOARD \*1-565-503-11 CONNECTOR, BOARD TO BOARD 12P 1/10W R158 1-249-409-11 CARBON 220 1/4W R159 1-249-409-11 1-216-089-00 CARBON 5% 5% 5% 5% 5% 1/4W R161 METAL GLAZE 47K 1/10W 1/10W <CAPACITOR> 1-216-095-00 1-216-095-00 1-216-075-00 R162 METAL GLAZE 82K R163 METAL GLAZE 82K 1-126-233-11 ELECT 1-126-103-11 ELECT 1/10WC101 22MF 20% 50V R164 METAL GLAZE 1/10W 470MF 47MF C102 20% 20% 20% 161 C104 C106 1-124-910-11 ELECT 50V R165 1-216-075-00 12K 2.7K 47K 2.7K METAL GLAZE 5% 5% 5% 5% 5% 5% 1-126-233-11 ELEC 1-136-165-00 FILM ELECT 22MF 50 V 1-216-059-00 1-216-089-00 R167 METAL GLAZE C108 1/10W 5% 0.1MF 50V R168 METAL GLAZE 1/10W 1-216-059-00 1-216-049-00 R169 METAL GLAZE 1/10W C109 1-163-133-00 CERAMIC CHIP 470PF R181 METAL GLAZE 1-124-925-11 1-124-925-11 1-124-122-11 C111 1/10W ELECT 2.2MF 2.2MF 20% 20% 50V C115 ELECT 50V R182 1-216-065-00 1-216-073-00 METAL GLAZE 4.7K 1/10W C127 100MF ELECT 20% 50V R193 METAL GLAZE 10K 1/10W C128 1-124-910-11 ELECT 47MF 50V R194 1-216-017-00 METAL GLAZE 47 1/10W R195 1-216-017-00 5% 5% C129 METAL GLAZE 47 1/10W 1-124-910-11 50V 50V 47MF 20% R196 1-216-113-00 METAL GLAZE 470K C138 C171 1-136-165-00 FILM 0 1MF 1-163-005-11 CERAMIC CHIP 470PF 1-163-005-11 CERAMIC CHIP 470PF 5% 10% 50V CERAMIC CHIP 470PF 10% 50 V <TUNER> 1-102-074-00 CERAMIC 0.001MF 50V TU101A 1-465-301-11 TUNER, ET (UV-816(PLL)) C181 1-101-004-00 CERAMIC 0.01MF 50V <IF BLOCK> <1C> V1F101 1-466-154-21 IF BLOCK (IFG-389S) IC103 8-759-979-62 IC PCF8574 <1100> \*A-1638-011-A C BOARD, COMPLETE (KV-E2521D ONLY) \*\*\*\*\*\*\*\*\*\*\* L100 1-410-683-31 INDUCTOR 560UH \*A-1638-013-A C BOARD, COMPLETE (KV-E2921D ONLY) 1-408-225-00 INDUCTOR 1-408-413-00 INDUCTOR L101 L102 3.3UH \*\*\*\*\*\*\*\*\*\*\* 22UH L107 1-408-397-00 INDUCTOR 1UH \*1-506-371-00 PIN, CONNECTOR 2P \*1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P \*1-568-878-51 PIN, CONNECTOR 3P

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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION		<b>L</b>	REMARK
	*1-568-881-51 *4-379-160-01 *4-379-167-01	PIN, CONNECT COVER (REAR COVER (MAIN)	OR 6P LID), CV , CV			R709 R710 R711 R712 R713	1-202-844-00 1-215-465-00 1-249-426-11 1-249-417-11 1-215-471-00	SOLID METAL CARBON CARBON METAL	330K 1 68K 1 5.6K 5 1K 5 120K 1	% 1/6W % 1/4W % 1/4W	
	<cap< td=""><td>ACITOR&gt;</td><td></td><td></td><td></td><td>R714</td><td>1-216-486-00</td><td>METAL OXIDE</td><td>8.2K 5</td><td></td><td>F</td></cap<>	ACITOR>				R714	1-216-486-00	METAL OXIDE	8.2K 5		F
C703 C704 C705 C706 C707	1-102-980-00 1-102-116-00 1-102-978-00 1-102-116-00 1-162-116-00	CERAMIC CERAMIC CERAMIC CERAMIC CERAMIC	270PF 680PF 220PF 680PF 680PF	5% 10% 5% 10% 10%	50V 50V 50V 50V 2KV	R715 R716 R717 R718	1-202-824-00 1-249-409-11 1-249-415-11 1-202-814-11	SOLID CARBON CARBON SOLID	3.3K 1 220 5 680 5 33K 1	0% 1/2W % 1/4W % 1/4W 0% 1/2W	r
C708 C709 C710 C711 C712	1-162-114-00 1-102-116-00 1-123-947-00 1-101-880-00 1-102-980-00	CERAMIC CERAMIC ELECT CERAMIC CERAMIC	0.0047MF 680PF 10MF 47PF 270PF	10% 20% 5% 5%	2KV 50V 250V 50V 50V	R719 R720 R721 R722 R723	1-249-401-11 1-249-423-11 1-202-842-11 1-202-848-00 1-249-417-11	CARBON CARBON SOLID SOLID CARBON	47 5 3.3K 5 220K 1 680K 1 1K 5	0% 1/2W 0% 1/2W	
C714 C716 C717 C718 C719	1-124-360-00 1-162-622-11 1-102-114-00 1-102-114-00	ELECT CERAMIC CERAMIC CERAMIC CERAMIC	1000MF 330PF 470PF 470PF 470PF	20% 10% 10% 10%	16V 400V 50V 50V 50V	R724 R725 R726 R727 R728	1-202-846-00 1-202-838-00 1-202-824-00 1-249-409-11 1-216-347-11	SOLID SOLID SOLID CARBON METAL OXIDE		0% 1/2W 0% 1/2W 0% 1/2W % 1/4W % 1W	F
D701	<dio 8-719-110-14</dio 	DE>		10/6	501	R729 R730 R731 R732 R733	1-249-416-11 1-249-401-11 1-249-423-11 1-249-415-11 1-249-415-11	CARBON CARBON CARBON CARBON CARBON	820 5 47 5 3.3K 5 680 5 680 5	% 1/4W % 1/4W % 1/4W % 1/4W % 1/4W	
D701 D702 D703 D704 D705	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	) ) )			R734 R735 R736 R737	1-249-405-11 1-215-493-00 1-216-486-00 1-215-491-00	CARBON METAL METAL OXIDE METAL	100 5 1M 1 8.2K 5 820K 1	% 1/4W % 1/6W	F
D706 D707		DIODE 188119 DIODE 188119				1614	1-215-491-00	METAL	02UN 1	(KV-E25	21D ONLY)
D708 D709 D710	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	<del>)</del>			R739	1-215-485-00 1-249-417-11		470K 1 1K 5	(KV-E29	21D ONLY)
D711 D713	8-719-300-33 8-719-911-19	DIODE RU-3AN DIODE 1SS119					< V A F	RIABLE RESISTOR	<b>l&gt;</b>		
	<jac< td=""><td>.K&gt;</td><td></td><td></td><td></td><td>RV701 RV702</td><td>1-230-641-11 1-230-619-11</td><td>RES, ADJ, MET RES. ADJ. MET</td><td>AL GLAZE</td><td>2.2M 110M</td><td></td></jac<>	.K>				RV701 RV702	1-230-641-11 1-230-619-11	RES, ADJ, MET RES. ADJ. MET	AL GLAZE	2.2M 110M	
J701	1-526-990-11		TURE TUBE			RV703	1-237-749-11 1-237-749-11	RES, ADJ, CAF	RBON 2200		
	<001	L>			•	*****	*********	**********	******	********	*******
L704	1-410-878-11		33UH			 		D BOARD, COMF **************** D BOARD, COMF ***********	***** PLETE (KV		
		NSISTOR>					*1-508-765-00	PIN, CONNECTO	OR (5MM P	ITCH) 3P	
Q702 Q703 Q704 Q705 Q706	8-729-119-78 8-729-906-70 8-729-200-17 8-729-119-78 8-729-906-70	TRANSISTOR 2 TRANSISTOR 3 TRANSISTOR 3 TRANSISTOR 3 TRANSISTOR 1	BF871 2SA1091-0 2SC2785-H				*1-508-786-00 *1-560-290-00 *1-565-394-11 *1-565-395-11	PLUG, CONNECT PIN, BOARD TO PIN, CONNECTO	FOR (2.5M D BOARD C DR 3P	M PITCH) ONNECTOR	
Q707 Q708 Q709 Q710	8-729-200-17 8-729-119-78 8-729-906-70	TRANSISTOR 2	2SA1091-0 2SC2785-H BF871	FE		1	*1-566-367-11 *1-568-536-11 *1-568-878-51 *1-568-881-51 *1-568-882-51	CONNECTOR, HI PLUG (MINIATE PIN, CONNECTO PIN, CONNECTO PIN, CONNECTO	JRE DÝ) 6 Dr 3p (kv Dr 6p	P	ILY)
	<pre><pre><pre><pre></pre></pre></pre></pre>	SISTOR>					4-200-001-01 4-201-023-01		ATING		
R704	1-216-486-00	METAL OXIDE	8.2K	5% 3W	F		*4-341-751-01 *4-341-752-01	EYELET			
R705 R706 R707 R708	1-202-824-00 1-249-409-11 1-249-412-11 1-249-401-11	SOLID CARBON CARBON	3.3K 220	10% 1/2W 5% 1/4W 5% 1/4W 5% 1/4W			<b>*</b> 4-368-683-01				



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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
		PACITOR>				C525	1-163-117-00	CERAMIC CHIP	100PF	5%	50 <b>V</b>
C002 C003 C004 C005 C008	1-163-205-00 1-124-925-11 1-124-120-11 1-124-791-11 1-163-117-00	CERAMIC CHIP ELECT ELECT ELECT CERAMIC CHIP	0.001MF 2.2MF 220MF 1MF 100PF	5% 20% 20% 20% 5%	50V 50V 16V 50V	C526 C527 C531 C532 C533	1-163-101-00 1-137-098-11 1-124-190-00 1-124-122-11 1-137-096-11				50V 100V 25V 50V 100V
C009 C010 C011 C013 C014	1-163-117-00 1-124-120-11 1-164-232-11 1-137-098-11	CERAMIC CHIP ELECT CERAMIC CHIP	100PF 220MF 0.01MF 0.1MF 0.1MF	5% 20% 10% 10%	50V 16V 50V 100V 100V	C534 C536 C537 C538	1-124-120-11 1-131-365-00 1-124-791-11 1-108-680-11 1-163-129-00	ELECT TANTALUM ELECT	220ME	20%	16V 16V 50V 100V 50V
C015 C016 C017 C018 C019	1-124-902-00 1-163-141-00 1-137-098-11 1-163-127-00 1-137-094-11	CERAMIC CHIP FILM CERAMIC CHIP	0.001MF 0.1MF 270PF 0.047MF	20% 5% 10% 5% 10%	50V 50V 100V 50V 100V	1 (001 41)	1-163-009-11 1-124-122-11 1-163-129-00 1-161-964-61 1-161-964-61	CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC	0.001MF 100MF 330PF 0.0047MF	10% 20% 5%	50V 50V 50V 250V 250V
C021 C023 C024 C027 C030	1-163-117-00 1-163-117-00 1-163-117-00 1-124-910-11 1-163-038-00	CERAMIC CHIP	100PF 100PF 100PF 47MF 0.1MF	5% 5% 5% 20%	50V 50V 50V 50V 25V	C604 A C605 C606 C607	1-161-964-61 1-125-318-11 1-124-484-11 1-163-137-00 1-137-028-11	ELECT (BLOCK) ELECT CERAMIC CHIP FILM	0.0047MF 220MF 220MF 680PF 1MF	20% 20% 5% 10%	250V 400V 35V 50V 63V
C031 C032 C033 C034 C034	1-163-081-00 1-163-081-00 1-163-181-00 1-123-875-11 1-163-038-00	CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.22MF 0.22MF 100PF 10MF 0.1MF	5% 20%	25V 25V 50V 50V 25V		1-124-927-11 1-124-910-11 1-108-680-11 1-136-539-11 1-102-030-00		4.7MF 47MF 0.001MF 0.0022MF 330PF	20% 20% 10% 3% 10%	50V 50V 100V 2KV 500V
C251 C252 C253 C254 C255		FILM ELECT	0.1MF 3300MF	10% 20%	50V 50V 50V 100V 25V	:	1-128-142-11 1-102-030-00 1-124-122-11 1-162-115-00 1-128-320-51		1500MF 330PF 100MF 330PF 2200MF	20% 10% 20% 10% 20%	25V 500V 50V 2KV 16V
C261 C262 C263 C264 C265	1-124-791-11 1-126-233-11 1-163-009-11 1-137-098-11 1-124-564-11	FILM ELECT	0.1MF 4700MF	10% 20%	50V 50V 50V 100V 25V	C620 C621 C622 C623 C624	1-136-173-00 1-124-347-00 1-128-320-51 1-124-910-11 1-124-122-11	FILM ELECT ELECT ELECT ELECT	0.47MF 100MF 2200MF 47MF 100MF	5% 20% 20% 20% 20%	50V 160V 16V 50V 50V
C270 C274 C501 C502 C503	1-137-035-11 1-137-035-11 1-124-927-11 1-124-927-11 1-137-049-11	FILM FILM ELECT ELECT FILM	0.47MF 0.47MF 4.7MF 4.7MF 0.015MF	10% 10% 20% 20% 10%	100V 100V 50V 50V 400V	C625 C626 C627 C631 C632	1-124-360-00 1-124-907-11 1-163-009-11 1-124-927-11 1-163-009-11	ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	1000MF 10MF 0.001MF 4.7MF 0.001MF	20% 20% 10% 20% 10%	16V 50V 50V 50V 50V
C504 C505 C506 C507 C508	1-163-121-00 1-108-794-11 1-137-102-11 1-137-033-11 1-137-102-11	CERAMIC CHIP MYLAR FILM FILM FILM	150PF 0.0015MF 0.022MF 0.33MF 0.022MF	5% 5% 10% 10% 10%	50V 50V 250V 100V 250V	C801 C802	1-163-117-00 1-126-105-11 1-102-030-00 1-123-948-00 1-162-114-00	CERAMIC CHIP ELECT CERAMIC ELECT CERAMIC	100PF 1000MF 330PF 22MF 0.0047MF	5% 20% 10% 20%	50V 35V 500V 250V 2KV
C509 C510 C511 C512 C513	1-137-098-11 1-161-959-00 1-108-686-11 1-137-098-11 1-163-125-00	FILM CERAMIC MYLAR FILM CERAMIC CHIP	0.1MF 22PF 0.0033MF 0.1MF 220PF	10% 10% 10% 10% 5%	100V 500V 100V 100V 50V	C806 C807 C810 C811 C812	1-137-098-11 1-106-395-00 1-123-024-21 1-136-113-00 1-124-634-11	FILM MYLAR ELECT FILM ELECT	0.1MF 0.15MF 33MF 2MF 1MF	10% 10% 5% 20%	100V 200V 160V 200V 250V
C514 C515 C516 C517 C518	1-137-031-11 1-124-791-11 1-108-680-11 1-124-252-00 1-124-902-00	FILM ELECT MYLAR ELECT ELECT	0.22MF 1MF 0.001MF 0.33MF 0.47MF	10% 20% 10% 20% 20%	100V 50V 100V 50V 50V	C814 AL C815	1-102-212-00 1-161-731-51 1-136-111-00 1-136-540-11	CERAMIC CERAMIC FILM	820PF 0.001MF 1MF 0.82MF	10% 10% 5% (KV-E25) 5%	500V 2KV 200V 21D ONLY) 200V
C519	1-136-173-00	FILM	0.47MF	5% (KV-E25)	50V 21D ONLY)	C817 <b>∆</b> .	1-136-565-11	FILM	0.015MF	(KV-E29)	21D ONLY) 1.4KV
CEOA		FILM	0.33MF	5% (KV-E29)	50V 21D ONLY)	1	1-136-591-11		0.017MF	(KV-E25)	21D ONLY) 1.4KV
C520 C521	1-164-161-11			10%	50V	C010 A	1-120 721 51	EIIM			21D ONLY)
C522 C523 C524	1-137-098-11 1-124-122-11 1-108-680-11 1-108-798-11	FILM ELECT MYLAR MYLAR	0.1MF 100MF 0.001MF 0.0033MF	10% 20% 10% 5%	100V 50V 100V 50V	C819 A	1-129-721-51 1-161-731-51	CERAMIC	0.039MF 0.001MF	10% 10%	630V 2KV



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION REMARK
	FILM 0.0082MF CERAMIC 680PF	10% 10% (KV-E25	400V 2KV 21D ONLY)	D618 D619 D620		DIODE RD5.6ES-B2 DIODE MTZJ-33A DIODE 1SS226
C822 1-163-005-11 C823 1-137-043-11 C824 1-102-212-00	CERAMIC 820PF	10% 10% 10%	2KV 21D ONLY) 50V 400V 500V	D621 D622 D623 D624 D630	8-719-982-24 8-719-911-19 8-719-911-19 8-719-911-19 8-719-921-91	DIODE 1SS119
	FILM 0.022MF FILM 0.33MF FILM 0.47MF CERAMIC 0.0022MF		250V 300V 300V 400V 21D ONLY)	D801 D802 D803 D804 D805	8-719-300-33 8-719-300-33 8-719-976-64 8-719-911-55 8-719-911-55	DIODE RU-3AM DIODE RGP02-17 DIODE UO5G
	CERAMIC 0.0022MF CERAMIC 0.0022MF CERAMIC 0.0047MF	20% (KV-E25 20%	400V 21D ONLY) 400V 250V	D806 D807 D808	8-719-945-80	DIODE ERCO6-15S DIODE ERCO6-15S DIODE ERD29-08J
	TER>			; 1 1 1	<1C>	
	VIBRATOR, CERAMIC OSCILLATOR, CERAMIC			10005	8-759-515-80 8-759-208-06 8-759-945-58 8-759-748-56 8-759-988-94	IC SDA2546
	NNECTOR> PIN, CONNECTOR (5MM PI	TCH) 1P		1	4-812-134-00	RIVET NYLON, 3.5: IC251
<.n10		(KV-E29	ZID UNLY)	IC501	8-759-988-94 4-812-134-00 8-759-970-73 8-759-944-57	IC TDA2050 RIVET NYLON, 3.5; IC261 IC TEA2028B IC TDA8170
D003     8-719-911-19       D005     8-719-109-89       D006     8-719-982-24       D007     8-719-982-08       D009     8-719-109-89				10604	8-759-988-95 8-759-510-52 8-759-037-26	IC TEA7605 IC TYA7812CT
D010 8-719-921-54	DIODE MTZJ-6.2B				<01	L>
D011 8-719-921-54 D012 8-719-911-19 D013 8-719-109-97 D271 8-719-921-88	DIODE MTZJ-6.2B DIODE 1SS119 DIODE RD6.8ES-B2 DIODE MTZJ-13B			L501 L601 L602 L603 L604	*1-420-872-00 1-410-396-41	INDUCTOR 3.3UH COIL, AIR CORE FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR INDUCTOR 47UH
D501 8-719-911-19 D504 8-719-911-55 D506 8-719-800-76	DIODE 1SS119 DIODE 1SS119 DIODE UO5G DIODE 1SS226 (KV-E252) DIODE 1SS119	D ONLY)		L605 L606 L607 L801	1-421-013-00 1-410-671-31	COIL (WITH CORE) (DRUM TYPE) COIL (HORIZONTAL CHOKE) 25UH INDUCTOR 47UH COIL,HCC DUST CORE 3.9MMH (KV-E2921D ONLY)
D509 8-719-911-19 D511 8-719-911-55 D512 8-719-911-55 D513 8-719-010-34 D514 8-719-911-19	DIODE UOSG DIODE UZ-4.7BSC	D ONLY)		L803 L804 L805	1-459-104-00 1-408-239-00 1-459-755-11	COIL, DUST CORE INDUCTOR 4.7MMH COIL, HORIZONTAL LINEARITY (KV-E2521D ONLY)
D515 8-719-911-19 D601 A8-719-510-63	DIODE 1SS119 (KV-E292	ID ONLY)		L806	1-459-907-11 1-459-111-00	(KV-E2921D ONLY)
D602 8-719-300-33 D603 8-719-911-55 D604 8-719-911-55	DIODE RU-3AM DIODE UO5G				1-459-087-00	COIL, HCC DUST CORE 3.9MMH (KV-E2921D ONLY)
D602     8-719-300-33       D603     8-719-911-55       D604     8-719-911-55       D605     8-719-911-55       D606     8-719-300-33       D607     8-719-300-33       D608     8-719-300-33	DIODE RU-3AM DIODE UO5G DIODE UO5G DIODE UO5G DIODE RU-3AM DIODE RU-3AM DIODE RU-3AM			L809 L810 A	1-459-087-00 *1-420-872-00 1-421-982-12	COIL.HCC DUST CORE 3.9MMH
D602 8-719-300-33 D603 8-719-911-55 D604 8-719-911-55 D605 8-719-911-55 D606 8-719-300-33 D607 8-719-300-33 D608 8-719-300-33	DIODE RU-3AM DIODE U05G DIODE U05G DIODE U05G DIODE RU-3AM DIODE RU-3AM DIODE RU-3AM DIODE MTZJ-33A  DIODE CTU-12S DIODE ERD29-08J DIODE CTU-12S DIODE EGP20G			L809 L810 4 LF1601 LF1602 LF1603	1-459-087-00 *1-420-872-00 \(\Lambda\) 1-421-982-12 \(\Lambda\) 1-421-794-21 \(\Lambda\) 1-421-866-12 \(\Lambda\) 1-421-866-13 \(\Lambda\) 1-421-862-11	COIL, HCC DUST CORE 3.9MMH (KV-E2921D ONLY)  COIL, AIR CORE PMC (KV-E2521D ONLY)  TRANSFORMER, FERRITE (PMT) (KV-E2921D ONLY)  INSFORMER> LFT LFT

1	

REF.NO	. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
T601 T602 T801	↑ 1-450-037-11 ↑ 1-424-277-11 ↑ 1-437-090-21	S.R.T (KV-E292 TRANSFORMER, I	RID ONLY) RIGGER PULSE		R015 R016	1-216-061-00 1-216-085-00	METAL GLAZE METAL GLAZE	3.3K 33K	5% 5%	1/10W 1/10W	
T 2 (12	M 1-130-116-11	TDANCECDMED AC	CV CIVDACV	/!!V 1 C D D \	0.017	1-216-748-11 1-216-095-00 1-216-025-00 1-216-025-00 1-216-065-00	METAL GLAZE	39K 82K 100 100 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
PS602 PS603 PS604	\$\lambda 1-532-984-91\$ \$\lambda 1-532-679-91\$ \$\lambda 1-532-984-91\$	LINK, IC (ICP-N LINK, IC (ICP-N LINK, IC (ICP-N	150) 2A 150) 2A 115) 0.6A 150) 2A		R022 R024 R025 R026 R027	1-216-065-00 1-216-073-00 1-216-073-00 1-216-182-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 10K 10K 220 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/10W	
Q001	8-729-901-01	TRANSISTOR DTC1	44EK		R028	1-216-025-00 1-216-073-00	METAL GLAZE	100 10K		1/10W 1/10W	
Q002 Q003 Q004 Q005	8-729-901-01 8-729-216-22 8-729-216-22 8-729-901-01	TRANSISTOR DTCI TRANSISTOR 2SA1 TRANSISTOR DTC1	44EK 162-G 162-G 44EK		R030 R031 R032 R033	1-216-073-00 1-216-081-00 1-216-073-00 1-216-073-00	METAL GLAZE	10K 22K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
Q006 Q007 Q008 Q009 Q010	8-729-901-01 8-729-901-78 8-729-901-78 8-729-901-78 8-729-901-78	TRANSISTOR DTC1 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2	44EK 412K-R 412K-R 412K-R 412K-R		R034 R035 R036 R037 R038	1-216-077-00 1-216-081-00 1-216-083-00 1-216-069-00 1-216-069-00	METAL GLAZE	15K 22K 27K 6.8K 6.8K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q251 Q261 Q271 Q502 Q505	8-729-901-78 8-729-901-78 8-729-901-78 8-729-216-22 8-729-140-96	TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SA1 TRANSISTOR 2SD7	412K-R 412K-R 412K-R 162-G 74-34		R039 R040 R041 R042 R043	1-216-081-00 1-216-077-00 1-216-073-00 1-216-049-00 1-216-041-00	METAL GLAZE METAL GLAZE	22K 15K 10K 1K 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q506 Q507 Q598 Q601 Q602	8-729-140-97 8-729-216-22 8-729-216-22 8-729-122-03 8-729-209-02	LINK>  LINK, IC (ICP-N LINK, I	34-34 162-G 162-G 220A-P 548-LB		R044 R045 R046 R047 R048	1-216-097-00 1-216-061-00 1-216-095-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	100K 3.3K 82K 10K 10K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q603 Q604 Q605 Q606 Q607	8-729-901-78 8-729-901-78	TRANSISTOR 2SA1 TRANSISTOR 2SA1 TRANSISTOR 2SC2 TRANSISTOR 2SC2 TRANSISTOR 2SD2	412K-R 412K-R 096-EF		R051 R052 R053	1-216-073-00 1-216-067-00 1-216-041-00 1-216-049-00 1-216-049-00	METAL GLAZE	10K 5.6K 470 1K 1K	5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q608 Q609 Q801 Q804 Q805	8-729-304-50	TRANSISTOR 2SC2 TRANSISTOR 2SD7 TRANSISTOR 2SC2 TRANSISTOR 2SD1 TRANSISTOR 2SC2	412K-R 89-34 412K-R 941-06 688-LK		R054 R055 R056 R057 R058	1-216-049-00 1-216-037-00 1-216-073-00 1-216-025-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 330 10K 100 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	<res1< td=""><td>ISTOR&gt;</td><td></td><td></td><td>R059 R060 R061</td><td>1-216-049-00 1-216-049-00</td><td>METAL GLAZE METAL GLAZE</td><td>1 K 1 K</td><td>5% 5%</td><td>1/10W 1/10W</td><td></td></res1<>	ISTOR>			R059 R060 R061	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W	
JR1 JR3 JR4	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0	5% 1/	′8₩ ′8₩ ′8₩	R062 R063	1-216-065-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
JR5 JR6 JR7 JR8 R001	1-216-295-00 1-216-295-00 1-216-296-00 1-216-295-00	METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0 METAL GLAZE 0	5% 1/ 5% 1/ 5% 1/ 5% 1/	110w 110w 18w 110w 110w	R064 R065 R066 R067 R068	1-216-049-00 1-216-049-00 1-216-049-00 1-216-073-00 1-216-174-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 10K 100	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R002 R003 R004 R005 R006	1-216-198-00 1-216-049-00 1-216-081-00	METAL GLAZE 11 METAL GLAZE 21 METAL GLAZE 21	K 5% 1/ K 5% 1/ 2K 5% 1/	10W 8W 10W 10W 10W	R071 R072	1-216-174-00 1-216-198-00 1-216-198-00 1-216-222-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 1K 1K 10K 10K	5% 5% 5% 5% 5%	1/8W 1/8W 1/8W 1/8W 1/8W	
R007 R008 R009 R010 R011	1-216-073-00 1-216-073-00 1-216-041-00	METAL GLAZE 10 METAL GLAZE 10 METAL GLAZE 4	OK 5% 1/ OK 5% 1/ 70 5% 1/	10W 10W 10W 10W 10W	R076 R078 R079	1-216-041-00 1-216-073-00 1-216-198-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 10K 1K 10K	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W	
R012 R013 R014	1-216-073-00	METAL GLAZE 10	OK 5% 1/ OK 5% 1/	10W 10W 10W	R080	1-216-073-00	METAL GLAZE	10K	5%	1/10W	



REF.NO. PART NO.	DESCRIPTION		Rf	EMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R081 1-216-073-0 R082 1-216-073-0 R083 1-216-049-0 R084 1-216-049-0 R085 1-216-049-0	OO METAL GLAZE OO METAL GLAZE OO METAL GLAZE	10K 5% 10K 5% 1K 5% 1K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R534 R535 R536 R537 R538	1-216-119-00 1-249-749-00 1-216-129-00 1-216-083-00 1-216-101-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	820K 2.2M 2.2M 27K 150K	5%	1/10W 1/4W 1/10W 1/10W 1/10W
R086 1-216-049-1 R087 1-216-035-1 R088 1-216-059-1 R093 1-216-073-1 R094 1-216-073-1	OO METAL GLAZE OO METAL GLAZE OO METAL GLAZE OO METAL GLAZE	1K 5 270 5 2 7 K 5% 10K 5% 10K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R539 R540 R541 R542 R543	1-216-101-00 1-216-013-00 1-216-091-00 1-216-308-00 1-249-451-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	150K 33 56K 4.7 2.2	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W
R095 1-216-073- R096 1-216-073- R098 1-216-049- R251 1-216-065- R252 1-216-039- R253 1-216-073-	OO METAL GLAZE OO METAL GLAZE OO METAL GLAZE OO METAL GLAZE	10K 5% 10K 5% 1K 5% 4.7K 5% 390 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R544 R545 R546 R547 R548 R549	1-247-745-11 1-216-081-00 1-216-083-00 1-216-061-00 1-216-349-00 1-216-454-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE METAL OXIDE	330 22K 27K 3.3K 1 390	5% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/2W 1/10W 1/10W 1/10W 1W F 2W F
R254 1-216-357- R255 1-216-073- R256 1-216-115- R257 1-216-077- R258 1-215-869-	00 METAL OXIDE 00 METAL GLAZE 00 METAL GLAZE 00 METAL GLAZE 11 METAL OXIDE	4.7 5% 10K 5% 560K 5% 15K 5%	1W F 1/10W 1/10W 1/10W		R550 R551 R553 R554 R555	1-216-095-00 1-216-129-00 1-215-869-11 1-216-037-00 1-216-129-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	82K 2.2M 1K 330 2.2M	5%	1/10W 1/10W 1W 1/10W 1/10W
R259 1-216-065- R261 1-216-065- R262 1-216-039- R263 1-216-073-	00 METAL GLAZE 00 METAL GLAZE 00 METAL GLAZE 00 METAL OXIDE	1K 5% 4.7K 5% 4.7K 5% 390 5% 10K 5%	1/10W 1/10W 1/10W 1/10W		R556 R557 R558 R559 R560	1-216-025-00 1-216-065-00 1-216-113-00 1-216-069-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 4.7K 470K 6.8K 330	5%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W
R265 1-216-073- R266 1-216-115- R267 1-216-077- R268 1-215-869- R269 1-216-065- R270 1-216-073-	00 METAL GLAZE 00 METAL GLAZE 11 METAL OXIDE 00 METAL GLAZE	4.7 5% 10K 5% 560K 5% 15K 5% 1K 5% 4.7K 5%	1/10W 1W F 1/10W		R561 R570 R591	1-216-107-00 1-216-045-00 1-216-047-00		270K 680 820	5% 5% 5%	1/10W (KV-E2921D ONLY) 1/10W (KV-E2921D ONLY) 1/10W
R271 1-216-045- R272 1-216-073- R273 1-216-073- R274 1-216-073- R500 1-216-115-	00 METAL GLAZE 00 METAL GLAZE 00 METAL GLAZE	680 5% 10K 5% 10K 5%	1/10W 1/10W		R592 R593 R594 R597 R598	1-216-049-00 1-216-053-00 1-216-071-00 1-216-041-00 1-215-900-11	METAL GLAZE METAL GLAZE	1K 1.5K 8.2K 470 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 2W F
R501 1-216-041- R502 1-216-033- R503 1-216-035- R504 1-249-420- R505 1-216-077-	00 METAL GLAZE 00 METAL GLAZE 00 METAL GLAZE 11 CARBON	470 5% 220 5% 270 5% 1.8K 5% 15K 5%	1/10W 1/4W 1/10W		R600 R601 R603 R604 R605	1-249-381-11 1-216-353-00 1-216-469-11 1-216-025-00 1-216-081-00	METAL OXIDE METAL GLAZE	1 2.2 12 100 22K	5% 5% 5% 5%	1/4W 1W F 3W F 1/10W 1/10W
R506 1-216-071- R509 1-216-063- R510 1-216-067-	00 METAL GLAZE 00 METAL GLAZE 00 METAL GLAZE 00 METAL GLAZE 00 METAL GLAZE	8.2K 5% 3.9K 5% 5.6K 5% 220 5% 3.3K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R606 R607	1-216-065-00 1-216-067-00	METAL GLAZE	4.7K 5.6K	5%	1/10W 1/10W (KV-E2521D ONLY) 1/10W (KV-E2921D ONLY)
R515 1-216-061- R517 1-216-073- R518 1-216-089- R519 1-216-081- R520 1-216-037- R521 1-216-025- R522 1-215-469- R523 1-216-049-	00 METAL GLAZE 00 METAL GLAZE 00 METAL GLAZE 00 METAL GLAZE	10K 5% 47K 5% 22K 5% 330 5% 100 5%	1/10W 1/10W 1/10W 1/10W		R608 R609 R610 R611 R612	1-216-488-11 1-216-007-00 1-244-941-00 1-216-015-00 1-216-049-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE	18K 18 680K 39 1K	5% 5% 5% 5%	3W F 1/10W 1/2W 1/10W 1/10W
R524 1-216-057- R525 1-216-049-	00 METAL GLAZE METAL GLAZE 00 METAL GLAZE	100K 1% 1K 5% 2.2K 5% 1K 5% 220 5%	1/10W 1/10W 1/10W (KV-E2521I		R613 R614 R616 R617 R618	1-216-097-00 1-205-758-11 1-216-099-00 1-216-037-00 1-216-431-11	WIREWOUND METAL GLAZE METAL GLAZE METAL OXIDE	100K 100 120K 330 560	5% 10% 5% 5%	1/10W 10W F 1/10W 1/10W 1W F 1/10W
R527 1-216-077- R528 1-216-031- R529 1-216-069- R530 1-249-448- R531 1-216-099-	-00 METAL GLAZE -00 METAL GLAZE -00 METAL GLAZE -11 CARBON -00 METAL GLAZE	15K 5% 180 5% 6.8K 5% 1.2 5% 120K 5%	1/10W 1/4W F 1/10W		R620 R621 R622 R623 R623	1-216-073-00 1-216-081-00 1-216-077-00 1-216-073-00 1-216-081-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 22K 15K 10K 22K 5.6K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
R532 1-216-049- R533 1-216-295-	-00 METAL GLAZE -00 METAL GLAZE	1K 5% 0 5%	1/10W		R625	1-215-865-11	METAL OXIDE	220	5%	1W F

specified.

REF. NO. PART NO. DESCRIPTION REMARK | REF. NO. PART NO. DESCRIPTION REMARK R626 1-216-037-00 METAL GLAZE 330 5% 5% 5% 5% 5% 1/10W 1-216-001-00 1-216-037-00 R628 METAL GLAZE METAL GLAZE 10 1/10W R629 330 1/10W R633 1-216-049-00 METAL GLAZE 1 K 1/10W \*1-634-193-11 VM BOARD (KV-E2921D ONLY) 1-216-430-11 METAL OXIDE 390 R635 1-216-073-00 5% 5% 5% 5% METAL GLAZE 108 1/10W \*1-568-878-51 PIN, CONNECTOR 3P 1-216-073-00 1-217-189-21 R636 METAL GLAZE 10K 1/10W R643 WIREWOUND 0.12 2W 1/10W F R651 1-216-025-00 METAL GLAZE 100 <CAPACITOR> R653 1-205-758-11 WIREWOUND 10% 100 10W F C751 C752 C753 C754 1-101-361-00 CERAMIC R802 150PF 1-249-443-11 5% 5% 5% 10% 50 V CARBON 0.47 1-108-629-11 1-137-047-11 1-102-980-00 0.018MF 0.01MF 1-249-448-11 1-216-093-00 1-215-869-11 MYLAR 10% 10% 1007 R805 CARBON 1/4W F 1/10W 1.2 68K METAL GLAZE METAL OXIDE R806 400V CERAMIC 270PF 5% 10% R807 50V F 1 K 1 W C757 1-108-692-11 MYLAR 200V R809 1-202-821-11 SOLID 1.8K 1/2W C759 1-123-875-11 10MF ELECT 20% R810 500 1-202-818-00 SOLID 1 K 10% 1/2W C760 1-124-917-11 ELECT METAL OXIDE 33MF 20% 501 R811 1-215-882-00 5% 5% 2W F 1/2W 1-101-006-00 CERAMIC 1-137-047-11 FILM 0.047MF C761 1-249-494-11 507 CARBON 68K 0.01MF10% 400V (KV-E2521D ONLY) 1-247-281-00 CARBON 5% 51K 1/2W <C01L> (KV-E2921D ONLY) R815 1-215-884-11 METAL OXIDE 47 2W 1W 5% 5% 5% 5% 1-408-413-00 INDUCTOR 1-410-665-31 INDUCTOR L751 22UH 1-215-868-00 R816 METAL OXIDE 680 F RS17 1-216-049-00 METAL GLAZE 1 K 1/10W R8201-249-403-11 CARBON 1/4W <TRANSISTOR> 1-247-725-11 1-217-778-11 R821 CARRON 10K 1/4W F R822 FUSIBLE 1W 1W 5% 5% 5% 5% 5% 5% Q751 Q752 Q753 8-729-119-78 TRANSISTOR 2SC2785-HFE 8-729-119-78 TRANSISTOR 2SC2785-HFE 8-729-140-97 TRANSISTOR 2SB734-34 8-729-140-96 TRANSISTOR 2SD774-34 1K R825 1-216-345-11 METAL OXIDE 0.47 R826 1-216-097-00 METAL GLAZE 100K 1/10W 1-216-073-00 1-216-059-00 1-216-051-00 R827 METAL GLAZE 10K 1/10W R828 METAL GLAZE 2.7K 1/10W R829 METAL GLAZE 1.2K 1/10W<RESISTOR> 5% 5% 5% 10% CARBON 2.2 1/4W CARBON 47K 1/4W R751 R752 R753 1-249-418-11 CARBON 1.2K 5% 5% 5% 5% 5% 1M 2.7 CARBON 1/2W 7W 1-249-426-11 CARBON 5.6K1/4W WIREWOUND 1-249-414-11 1-249-434-11 CARBON 560 1/4W CARBON 1/4W 47K R754 CARBON 27K 1/4 R755 1-249-405-11 CARBON R1605A 1-218-265-91 100 1/4WMETAL GLAZE 8.2M 5% 1 W R5501 1-216-073-00 R5503 1-216-308-00 10K METAL GLAZE 5% 5% 1/10W R756 1-249-419-11 1.5K5% 5% 5% 5% 5% 1/4W METAL GLAZE 4.7 1/10W R757 1-249-405-11 CARBON 100 1/4W (KV-E2521D ONLY) R758 1-249-409-11 CARBON 220 1/4W 1-216-001-00 METAL GLAZE 10 5% 1/10W R760 1-249-411-11 CARBON 330 1/4W R761 1-249-429-11 CARBON 10K 1/4W (KV-E2921D ONLY) 1-216-121-00 METAL GLAZE 5% 5% 5% 1M 1/10W R762 1-247-895-00 470K R5505 5% 5% 5% 5% 5% 5% 1/4W 1-216-001-00 METAL GLAZE 10 1/10W 1-249-429-11 1-249-455-11 1-249-455-11 1-247-753-11 R763 CARBON 10K R5506 1-216-075-00 1/4W METAL GLAZE 12K R764 4.7 4.7 CARBON 1/4W F (KV-E2921D ONLY) R765 CARBON 1/4W R766 CARBON 1/2W <VARIABLE RESISTOR> 1-247-751-11 CARBON 1-215-887-00 METAL ON 1-212-889-00 FUSIBLE R767 820 1/2W METAL OXIDE R768 1-238-013-11 RES, ADJ, CARBON 2.2K 1-238-016-11 RES, ADJ, CARBON 10K 1-238-011-11 RES, ADJ, CARBON 470 150 R769  $\bar{1}/4W$ RV502 RV601 \* A-1645-013-A V BOARD, COMPLETE <SPARK GAP> \*\*\*\*\*\*\*\*\*\*\*\* SG801 1-519-422-11 GAP, SPARK <CAPACITOR> <THERMISTOR> 01 1-126-101-11 ELECT 100MF 20% 161 C2 C3 CERAMIC CHIP 0.1MF 1-163-038-00 THP601A 1-808-059-32 THERMISTOR, POSITIVE 25V 1-124-120-11 ELECT 220MF 20% 16V 1-163-077-00 C4 CERAMIC CHIP O. 1MF 501 C5 1-124-120-11 ELECT 20% 16V C6 1-163-038-00 CERAMIC CHIP 0.1MF 251



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			RE
C8 1-163-235-11 C9 1-163-235-11	CERAMIC CHIP 22PF CERAMIC CHIP 22PF CERAMIC CHIP 22PF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	5% 5% 5%	50V 50V 50V 25V 25V	JR11 JR12 JR13 JR14 JR16	1-216-295-00 1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W 1/8W
C13 1-163-038-00 C14 1-124-927-11 C15 1-124-927-11	ELECT 4.7MF	20% 20% 5%	25V 25V 50V 50V 50V	JR17 JR21 JR22 JR23 JR24	1-216-295-00 1-216-296-00 1-216-295-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/8W
C18 1-163-141-00 C19 1-163-235-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF CERAMIC CHIP 22PF	5% 5% 5%	50V 50V 50V	JR26 JR27 JR201 JR204 JR207	1-216-296-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W
CNV1 *1-565-393-11 CNV2 *1-565-393-11	NECTOR>  CONNECTOR, BOARD TO BOAF CONNECTOR, BOARD TO BOAF	RD RD		JR213	1-216-295-00 1-216-295-00 1-216-295-00 1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/8W 1/10W
D3 8-719-914-44 D4 8-719-400-18	DES  DIODE RD5.6M-B2 DIODE DAP202K DIODE DAP202K DIODE DAP202K DIODE MA152WK DIODE MA152WK			JR223 R1 R3 R4 R5	1-216-295-00 1-218-326-11 1-216-049-00 1-216-025-00 1-216-047-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 470 1K 100 820	5% 5% 5% 5%	1/10W 1/2W 1/10W 1/10W 1/10W
D7 8-719-105-52 D9 8-719-106-17	DIODE RD3.6M-B2 DIODE RD6.8M-B2			R6 R7 R8 R9 R02	1-216-001-00 1-216-083-00 1-216-071-00 1-216-308-00 1-216-214-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10 27K 8.2K 4.7 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W
IC2 8-759-510-46	IC SDA20162-A002 IC SAA5246P/E IC FCB61C65-70P			R10 R11 R12 R13 R14	1-218-325-11 1-218-325-11 1-218-325-11 1-216-025-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	120 120 120 100 10	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/10W 1/10W
C01 L1 1-408-403-00 L2 1-408-407-00 L3 1-408-407-00 L4 1-408-407-00	INDUCTOR 3.3UH INDUCTOR 6.8UH INDUCTOR 6.8UH			R15 R16 R17 R18 R19	1-216-013-00 1-216-013-00 1-216-013-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33 33 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
<10	LINK> LINK, IC (ICP-N15) 0.6A			R20 R21 R22 R23 R24	1-216-041-00 1-216-041-00 1-216-168-00 1-216-214-00 1-216-065-00	METAL GLAZE METAL GLAZE	470 470 56 4.7K 4.7K		1/10W 1/10W 1/8W 1/8W 1/10W
01 8-729-900-53 02 8-729-920-92	NSISTOR>  TRANSISTOR DTC114EK TRANSISTOR 2SD2096-EF TRANSISTOR 2SC2412K-R			R25 R26 R27 R28 R34	1-216-065-00 1-216-049-00 1-216-214-00 1-216-067-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 1K 4.7K 5.6K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W
04 8-729-901-78 05 8-729-807-87 06 8-729-807-87 07 8-729-807-87	TRANSISTOR 2SC2412K-R TRANSISTOR 2SB1295-UL6 TRANSISTOR 2SB1295-UL6 TRANSISTOR 2SB1295-UL6			R35 R40 R41 R42 R44	1-216-065-00 1-216-065-00 1-216-065-00 1-216-049-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 4.7K 1K 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	TRANSISTOR 2SC2412K-R SISTOR>			R46 R47 R49	1-216-065-00 1-216-065-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 1K	5% 5% 5%	1/10W 1/10W 1/10W
JR01 1-216-295-00 JR02 1-216-295-00 JR03 1-216-295-00 JR08 1-216-295-00 JR09 1-216-295-00	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5%	1/10W 1/10W 1/10W 1/10W 1/10W		RV1		TABLE RESISTOR			

V H1	H2	<b>J2</b>	J1

DESCRIPTION REF.NO. PART NO. REMARK | REF. NO. PART NO. DESCRIPTION REMARK <CRYSTAL> 1-579-266-21 CRYSTAL VIBRATOR 1-577-364-11 VIBRATOR, CERAMIC X1 <C01L> L1751 1-412-240-11 INDUCTOR, WIDE BAND L1752 1-412-240-11 INDUCTOR, WIDE BAND \*1-638-391-11 H1 BOARD A-1651-018-A J1 BOARD, COMPLETE (KV-E2521D ONLY) 1-562-837-11 JACK \*1-564-512-11 PLUG, CONNECTOR 9P 1-568-678-11 TERMINAL BLOCK, S 3P \*1-568-879-51 PIN, CONNECTOR 4P \*1-568-881-51 PIN, CONNECTOR 6P \*\*\*\*\*\*\*\*\*\*\*\* A-1651-020-A J1 BOARD, COMPLETE (KV-E2921D ONLY) \*\*\*\*\*\*\*\*\*\*\*\*\* 1-561-534-41 SOCKET 21P \*1-564-524-11 PLUG, CONNECTOR 9P \*1-564-527-11 PLUG, CONNECTOR 12P <RESISTOR> \*1-566-641-11 CONNECTOR, HINGE (TAB) 18P R1651 1-249-413-11 CARBON R1652 1-249-413-11 CARBON 470 470 1/4W <CAPACITOR> 1-124-925-11 1-124-927-11 1-124-925-11 C203 ELECT 2.2MF 20% 507 <SWITCH> C205 20% 20% 20% 20% 20% 4.7MF 2.2MF FLECT 50V C206 ELECT 500 \$1651 1-571-532-21 SWITCH, TACTIL \$1652 1-571-532-21 SWITCH, TACTIL \$1653 1-571-532-21 SWITCH, TACTIL C207 1-124-927-11 4.7MF ELECT 50V C213 1-126-233-11 22MF 507 C214 C217 1-137-045-11 1-137-045-11 0.0068MF 400V FILM FILM 10% 0.0068MF 400V 1-137-102-11 1-137-102-11 C218 0.022MF 250V \*1-638-392-11 H2 BOARD C219 FILM 0.022MF 10% 10% 250V \*\*\*\*\*\*\* 1-108-686-11 MYLAR 0.0033MF 100V \*1-568-882-51 PIN, CONNECTOR 7P \*4-374-987-01 GUIDE, LIGHT \*4-381-686-01 BRACKET (B), LIGHT GUIDE 1-108-686-11 0.0033MF 10% 100V C222 C223 1-137-095-11 1-137-095-11 10% 10% 10% FILM 0.056MF 1000 FILM 0.056MF 1000 1-137-047-11 C224 FILM 0.01MF 400V C225 1-136-173-00 FILM 0.47MF 5% 50V <DIODE> FILM FILM FILM C226 1-136-173-00 1-137-102-11 1-137-104-11 0.47MF 507 D1651 8-719-948-31 DIODE LD-201VR C227 10% 10% 10% 10% 0.022MF 250V \*\*4-201-076-01 HOLDER, LED; D1651
D1652 8-719-948-31 D10DE LD-201VR
\*\*4-201-076-01 HOLDER, LED; D1652
D1654 8-719-948-31 D10DE LD-201VR C228 0.033MF 250V 0.015MF 0.015MF 1-137-049-11 FILM 400V 1-137-049-11 400V 20% 20% 10% 10% 10% C231 1-124-902-00 ELECT 0.47MF 1-123-875-11 ELECT 10MF 1-163-005-11 CERAMIC CHIP 470PF 1-163-005-11 CERAMIC CHIP 470PF 1-163-005-11 CERAMIC CHIP 470PF \*4-201-076-01 HOLDER, LED; D1654 C232 C233 C234 50V 50V 50V <10> C235 501 10% 20% 5% 20% IC1651 8-741-101-75 IC SBX1610-11 C236 1-163-005-11 CERAMIC CHIP 470PF 50V C237 C238 C239 1-124-902-00 ELECT 0.47MF 501 1-163-125-00 1-126-103-11 CERAMIC CHIP 220PF 50V <RESISTOR> ELECT 161 CERAMIC CHIP 0.0056MF C240 1-163-018-00 50V R1662 1-249-413-11 CARBON 470 5% 1/4W CERAMIC CHIP 0.0056MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF CERAMIC CHIP 0.022MF C241 C242 C243 1-163-018-00 1-163-033-00 1-163-033-00 10% 507 \* 501 50V 50V \*1-638-393-11 J2 BOARD C244 1-163-033-00 \*\*\*\*\*\* 1-163-033-00 50V 1-537-339-11 TERMINAL BOARD \*1-560-278-21 PLUG, CONNECTOR \*1-564-517-11 PLUG, CONNECTOR \*1-564-519-11 PLUG, CONNECTOR C1401 507 20% PLUG, CONNECTOR 4P PLUG, CONNECTOR 2P PLUG, CONNECTOR 4P 1-126-103-11 1-163-003-11 1-137-035-11 20% 10% 10% C1402 ELECT 470MF 161 C1403 C1404 CERAMIC CHIP 330PF 50¥ 0.47MF FILM 1000 CERAMIC CHIP 0.0047MF 1-136-017-00 C1405 507 10% 20% 20% 20% <CAPACITOR> C1406 1-137-035-11 FILM 0.47MF 1000 C1407 1-124-910-11 ELECT 47MF 50V 0.022MF 1-124-122-11 1-126-233-11 1-101-005-00 CERAMIC 50V 50V 50V C1408 ELECT 100MF C1752 C1755 0.022MF 470PF 1-101-005-00 CERAMIC 1-102-114-00 CERAMIC 1-102-114-00 CERAMIC 50V 50V C1409 ELECT 10% C1410 1-123-875-11 10MF 501 470PF 50V 10%

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REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	L Ri
C1411 1-123-875-11 C1412 1-124-910-11 C1413 1-124-910-11 C1414 1-123-875-11	ELECT 10MF ELECT 47MF ELECT 47MF ELECT 10MF FILM 0.47MF	20% 50V 20% 50V 20% 50V 20% 50V 10% 100V	D1410 8-719-110-14 D1415 8-719-110-03 D1418 8-719-110-03	DIODE RD7.5ES-B2 DIODE RD7.5ES-B2	
C1416 1-137-035-11 C1416 1-137-035-11 C1417 1-124-120-11 C1418 1-163-003-11 C1419 1-163-003-11	FILM 0.47MF ELECT 220MF CERAMIC CHIP 330PF CERAMIC CHIP 330PF ELECT 0.47MF	10% 100V 20% 16V 10% 50V 10% 50V	D1420	DIODE RD7.5ES-B2 DIODE RD7.5ES-B2 DIODE RD7.5ES-B2 DIODE RD7.5ES-B2	
C1426 1-124-902-00 C1427 1-136-017-00 C1428 1-136-017-00	ELECT 0.47MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0047MF		D1424 8-719-110-03 D1425 8-719-110-03 D1426 8-719-110-03 D1501 8-719-300-33 D1502 8-719-911-19	DIODE RD7.5ES-B2 DIODE RD7.5ES-B2 DIODE RU-3AM	
C1430 1-163-003-11 C1431 1-126-529-11 C1432 1-124-902-00 C1433 1-124-122-11	ELECT 0.47MF ELECT 0.47MF ELECT 100MF	10% 50V	D1503 8-719-911-19 D1504 8-719-911-19 D1505 8-719-911-19 D1506 8-719-982-33 D1507 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE MTZJ-36D	
C1437 1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D1510 8-719-911-19		
C1438 1-137-047-11 C1439 1-137-047-11 C1440 1-123-875-11 C1441 1-123-875-11 C1442 1-137-035-11	FILM 0.01MF FILM 0.01MF ELECT 10MF ELECT 10MF FILM 0.47MF	10% 400V 10% 400V 20% 50V 20% 50V 10% 100V		IC TDA6200 IC CXA1114P	
C1443 1-137-035-11 C1444 1-124-910-11 C1445 1-102-824-00 C1446 1-102-824-00 C1501 1-124-927-11	FILM 0.47MF ELECT 47MF CERAMIC 470PF CERAMIC 470PF ELECT 4.7MF	10% 100V 20% 50V 5% 50V 5% 50V 20% 50V	101402 8-759-946-32 101403 8-759-040-53 101501 8-759-942-16	IC MC14053BCP IC TEA2031A  ANSISTOR>	
C1502 1-124-791-11 C1503 1-108-680-11 C1504 1-124-910-11 C1505 1-137-094-11 C1507 1-108-686-11	ELECT 1MF MYLAR 0.001MF ELECT 47MF FILM 0.047MF MYLAR 0.0033MF	20% 50V 10% 100V 20% 50V 10% 100V 10% 100V	Q201 8-729-901-78 Q202 8-729-901-78 Q1401 8-729-216-22 Q1402 8-729-901-78	TRANSISTOR 2SC2412K- TRANSISTOR 2SC2412K- TRANSISTOR 2SC2412K- TRANSISTOR 2SC2412K- TRANSISTOR 2SC2412K- TRANSISTOR 2SC2412K-	R R
C1508 1-124-791-11 C1509 1-124-791-11 C1511 1-124-927-11 C1512 1-137-045-11	ELECT 1MF ELECT 1MF ELECT 4.7MF FILM 0.0068MF	20% 50V 20% 50V 20% 50V 10% 400V		TRANSISTOR 2SA1162-G	
C1513 1-163-105-00 C1514 1-137-102-11	CERAMIC CHIP 33PF FILM 0.022MF CERAMIC 820PF	5% 50V 10% 250V (KV-E2521D ONLY)	R201 1-216-079-00 R202 1-216-206-00 R203 1-216-075-00 R204 1-216-085-00 R205 1-216-085-00	MEINL ULNZE 33N	5% 1/10W 5% 1/8W 5% 1/10W 5% 1/10W 5% 1/10W
	NNECTOR>	(KV-E2521D ONLY)	R206	METAL GLAZE 3.3K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W
<di< td=""><td>ODE&gt;</td><td></td><td>R211 1-216-097-00 R212 1-216-081-00</td><td></td><td></td></di<>	ODE>		R211 1-216-097-00 R212 1-216-081-00		
D202 8-719-110-14 D205 8-719-110-03	DIODE RD7.5ES-B2		R214 1-216-033-00 R215 1-216-081-00		5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W
D1401 8-719-110-03 D1403 8-719-110-03 D1404 8-719-110-03	DIODE RD7.5ES-B2 DIODE RD7.5ES-B2 DIODE RD7.5ES-B2		R216 1-216-081-00 R217 1-216-077-00 R218 1-216-033-00 R219 1-216-073-00 R220 1-216-057-00	O METAL GLAZE 22K O METAL GLAZE 15K O METAL GLAZE 220 O METAL GLAZE 10K O METAL GLAZE 2.2K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W
D1406 8-719-110-03 D1407 8-719-921-77 D1408 8-719-110-14	D10DE RD7.5ES-B2 D10DE RD7.5ES-B2 D10DE MTZN-10C D10DE RD9.1ES-B3 D10DE RD9.1ES-B3		R221 1-216-041-00 R222 1-216-041-00 R223 1-216-049-00 R224 1-216-049-00 R225 1-216-049-00	) METAL GLAZE 470 ) METAL GLAZE 470 ) METAL GLAZE 1K ) METAL GLAZE 1K ) METAL GLAZE 1K	5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W 5% 1/10W
0 (1) 110 14	21000 ND).100 D)		, 1 210 017 00	, dumb In	

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REF.NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R226 R227	1-216-049-00 1-216-033-00	METAL GLAZE METAL GLAZE	1 K 220	5% 5%	1/10W		R1457	1-216-025-00	METAL GLAZE	100 5	% 1/10W	
R228 R229 R230	1-216-033-00 1-216-075-00 1-216-079-00	METAL GLAZE	1K 220 220 12K 18K	2%	1/10W 1/10W 1/10W		R1459 R1460 R1461 R1462	1-216-025-00 1-216-065-00 1-216-190-00 1-216-057-00	METAL GLAZE	100 55 4.7K 55 470 55 2.2K 55	7/10W	
R231 R232 R233 R234 R240	1-216-057-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 2.2K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R1463 R1464 R1465	1-216-049-00 1-216-061-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 5582 55	1/10W 1/10W 1/10W	
R241 R242	1-216-091-00	METAL GLAZE	220 56K	5% 5%	1/10W		R1466 R1467 R1468	1-216-033-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 57 100 57 100 57	1/10W	
R243 R244 R245	1-216-075-00 1-216-067-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 5.6K 12K	5%	1/10W 1/10W		R1470 R1471	1-216-025-00 1-216-025-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 57 100 57 82 57		
R247 R248	1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 12K 5.6K	5% 5%	1/10W 1/10W 1/10W		R1473	1-216-023-00	METAL GLAZE			
R249 R250 R1401	1-216-075-00 1-216-067-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE	12K 5.6K 82	5% 5%	1/10W 1/10W 1/10W		R1476 R1477 R1478 R1480	1-216-089-00 1-216-089-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 5% 47K 5% 47K 5% 470K 5% 470 5%	1/10W 1/10W 1/10W	
R1402 R1403 R1404	1-216-170-00 1-216-089-00	METAL GLAZE METAL GLAZE	68 47K 150 10K	5% 5% 5% 5%	1/8W 1/10W 1/8W 1/4W		R1482 R1483 R1484	1-216-190-00 1-216-178-00 1-216-178-00 1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	150 5% 150 5% 10K 5%	1/8W	
R1408	1-216-089-00	METAL GLAZE METAL GLAZE	470K 47K		1/10W 1/10W		R1485 R1486	1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	10K 5%	1/10W 1/10W	
R1410 R1411	1-216-089-00 1-216-041-00	METAL GLAZE METAL GLAZE	470 47K 470	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W		R1487 R1488 R1489 R1501	$\begin{array}{c} 121606500 \\ 121606500 \\ 121606500 \\ 121608100 \end{array}$	METAL GLAZE	4.7K 5% 4.7K 5% 4.7K 5% 22K 5%	1/10W	
R1413 R1414	1-216-089-00 1-216-113-00 1-216-089-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 470K 47K 27K	5%	1/10W 1/10W 1/10W		R1502	1-216-083-00 1-216-113-00	METAL GLAZE	27K 5%	1/10W	
R1416 R1417	1-216-083-00 1-216-023-00	METAL GLAZE	27K 82	5% 5%	1/10W 1/10W		R1504 R1505 R1506	1-216-085-00 1-216-081-00 1-216-113-00 1-216-105-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 5% 33K 5% 22K 5% 470K 5% 220K 5%	1/10W 1/10W 1/10W	
R1418 R1422 R1423	1-247-738-11 1-216-025-00 1-216-083-00	CARBON	82 100 27K 27K	5% 5% 5% 5%	1 /00		R1510 R1511 R1512	1-216-067-00 1-216-049-00 1-216-073-00 1-216-091-00 1-216-049-00		5.6K 5% 1K 5% 10K 5%	1/106	
R1426	1-216-045-00 1-216-025-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE	100							1K 5%	1/10W	
11420	1-216-113-00	METAL GLAZE METAL GLAZE	470K 470K	5%	1/10W 1/10W		R1516	1-216-117-00 1-216-079-00	METAL GLAZE	680K 5%	(KV-E2521D 1/10W	ONLY)
R1431	1-216-170-00 1-216-041-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	68 470 470	5% 5% 5% 5%	1/8W 1/10W 1/10W		R1519	1-216-033-00 1-216-101-00	METAL GLAZE METAL GLAZE	220 5% 150K 5%	1/10W 1/10W	
R1433	1-216-033-00	METAL GLAZE CARBON	220 10	5% 5%	1/10W 1/10W 1/4W F			1-216-113-00 1-216-111-00	METAL GLAZE METAL GLAZE	470K 5% 390K 5%	1/10W (KV-E2521D 1/10W	
K1440	1-216-045-00	CARBON METAL GLAZE	10K 680	5% 5%	1/4W 1/10W	, , ,		1-216-214-00	METAL GLAZE	4.7K 5%	(KV-E2921D 1/8W	ONLY)
R1442	1-216-089-00		680 47K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W	! ! !		1-216-349-00 1-216-067-00	METAL OXIDE METAL GLAZE	1 5% 5.6K 5%	1W F (KV-E2921D 1/10W	ONLY)
R1445	1-216-095-00 1-216-033-00	METAL GLAZE	220 82K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W	4 4 4 9			IABLE RESISTOR>	•		
R1448	1-216-025-00	METAL GLAZE	220 100		1/10W 1/10W	] ] ] ] !	RV1502 RV1503	1-238-016-11 1-238-017-11	RES, ADJ, CARE RES, ADJ, CARE RES, ADJ, CARE	ON 10K		
R1454	1-216-049-00 1-216-180-00		1K 1K 180 180	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W	; 6 8 1 1 1 1	RV1504 RV1505	1-238-012-11 1-238-023-11	RES, ADJ, CARE RES, ADJ, CARE RES, ADJ, CARE	ON 1K ON 470K		

The components identified by shading and mark  $ilde{\Delta}$  are critical for safety. Replace only with part number specified.



REF.NO. PART NO.	DESCRIPTION	REMARI	REF.NO.	PART NO.	DESCRIPTION			REMARK
RV1507 1-238-009-11 RV1508 1-238-016-11 RV1509 1-238-023-11	RES, ADJ, CARBON 220 RES, ADJ, CARBON 10K RES, ADJ, CARBON 470K	******	IC1 IC2 IC3 * IC4	8-759-003-90 8-759-003-90 8-759-030-48 8-759-513-48	IC TBA129 IC TDA6600-2	)		
A-1654-004-A	IFG BOARD, COMPLETE			<c01< td=""><td>L&gt;</td><td></td><td></td><td></td></c01<>	L>			
*1-565-488-11	CONNECTOR, BOARD TO BOARD	12P	L1 L2	1-408-410-00 1-408-410-00	INDUCTOR	12UH 12UH		
	PACITOR>		L3 L4 L5	1-410-064-11 1-408-421-00 1-408-421-00	INDUCTOR INDUCTOR	2.7MMH 100UH 100UH		
C1 1-164-232-11 C2 1-164-232-11 C3 1-164-232-11 C4 1-164-232-11 C5 1-164-232-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	50V 50V 50V 50V	Q2	<tra 8-729-901-00</tra 	NSISTOR>	°C124EK		
C6 1-164-232-11 C7 1-124-791-11	CERAMIC CHIP O.O1MF ELECT 1MF	50V 20% 50V	Q3 Q4	8-729-216-22	TRANSISTOR 25 TRANSISTOR DT	SA1162-G		
C8 1-123-875-11 C9 1-130-471-00 C10 1-163-121-00	ELECT 10MF	20% 50V 5% 50V 5% 50V			ISTOR>			
C11 1-163-119-00 C12 1-136-298-00 C13 1-124-477-11 C14 1-124-477-11 C15 1-124-477-11	ELECT 47MF ELECT 47MF	5% 50V 2% 100V 20% 16V 20% 16V 20% 16V	JR8 JR10 R1 R2 R3	1-216-296-00 1-216-296-00 1-216-045-00 1-216-043-00 1-216-043-00	METAL GLAZE METAL GLAZE	0 5% 0 5% 680 5% 560 5%	1/10W 1/10W	
C16 1-124-477-11 C17 1-123-875-11 C18 1-137-047-11 C19 1-137-047-11 C20 1-126-233-11	ELECT 47MF ELECT 10MF FILM 0.01MF FILM 0.01MF	20% 16V 20% 50V 10% 400V 10% 400V 20% 50V	R5 R6 R7 R9 R11	1-216-045-00 1-216-043-00 1-216-043-00 1-216-073-00 1-216-095-00	METAL GLAZE METAL GLAZE METAL GLAZE	680 5% 560 5% 560 5% 10K 5% 82K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C21 1-126-233-11 C22 1-137-098-11 C23 1-137-031-11 C24 1-124-034-51 C25 1-137-102-11	ELECT 22MF FILM 0.1MF FILM 0.22MF ELECT 33MF	20% 50V 10% 100V 10% 100V 20% 16V 10% 250V	R12 R13 R15 R16 R17	1-216-097-00 1-216-071-00 1-216-059-00 1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	100K 5% 8.2K 5% 2.7K 5% 100K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C26 1-137-094-11 C27 1-124-791-11	FILM 0.047MF ELECT 1MF CERAMIC CHIP 47PF ELECT 1MF	10% 100V 20% 50V 5% 50V 20% 50V 20% 50V	R18 R19 R20 R22 R24	1-216-063-00 1-216-097-00 1-216-075-00 1-216-099-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 5% 100K 5% 12K 5% 120K 5% 47K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C31 1-137-047-11	FILM 0.01MF		R25	1-216-077-00	METAL GLAZE	15K 5	1/10W	
	CERAMIC CHIP 0.22MF FILM 0.22MF	25V 10% 100V 20% 50V	RV1		IABLE RESISTOR RES, ADJ, CAR			
C36 1-163-119-00 C37 1-124-477-11	CERAMIC CHIP 120PF	5% 50V 20% 16V	RV2		RES, ADJ, CAR	RBON 47K	*******	******
C38 1-124-477-11	ELECT 47MF	20% 16V 5% 50V		MIS	CELLANEOUS			
<fii< td=""><td>TER&gt;</td><td></td><td></td><td>↑ 1-460-091-11 ↑ 1-426-398-11</td><td></td><td></td><td></td><td>ONLY)</td></fii<>	TER>			↑ 1-460-091-11 ↑ 1-426-398-11				ONLY)
CDA2 1-404-750-11 SFT1 1-527-840-00	DISCRIMINATOR, CERAMIC DISCRIMINATOR, CERAMIC FILTER, CERAMIC FILTER, CERAMIC		1 4	↑ 1-451-311-21 ↑ 1-451-313-21 1-452-032-00	DEFLECTION YOU DEFLECTION YOU MAGNET, DISK;	OKE (Y25F) OKE (Y29F) ; 10MM ø	(A) (KV-E252 (A) (KV-E292)	1D ONLY)
<010	DDE>		1	1-452-094-00 1-452-509-42	NECK ASSY, PI	ICTURE TUE	BÉ (NA-308) (KV-E292	1D ONLY)
D3 8-719-400-18	DIODE MA152WK		1	<b>∆</b> 1-590-501-11 <b>∆</b> 8-733-224-05				1D ONLY)
<103	>		4	Ã8-733-824-05 ***********	PICTURE TUBE	(A68JYK60	X) (KV-E292)	1D ONLY)

## ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
*A-1678-001-A *A-1678-010-A	BOX ASSY, WOOFER BOX ASSY (RIGHT), SPEAKER (KV-F252	1D ONLY)
*A-1678-003-A	BOX ASSY (RIGHT), SPEAKER	1D ONLY)
*A-1678-012-A *A-1678-005-A	BOX ASSY (LEFT), SPEAKER (KV-E252 BOX ASSY (LEFT), SPEAKER	1D ONLY)
<b>*</b> 3-704-280-01	BAG (STANDARD), PROTECTION	1D ONLY)
*3-704-283-01 4-200-591-11	BAG (STANDARD), PROTECTION	1D ONLY)
*4-201-015-02	(GERMAN/ENGLISH DUTCH/ITALIAN/POR INDIVIDUAL CARTON (KV-E2521D ONL	TUGUESE)!
*4-200-036-01 *4-201-012-02 *4-200-041-02 *4-201-013-01	INDIVIDUAL CARTON (KV-E2921D ONL CUSHION (UPPER) (ASSY) (KV-E2521 CUSHION (UPPER) (ASSY) (KV-E2921 CUSHION (LOWER) (ASSY) (KV-E2521	Y) D ONLY) D ONLY)
*4-200-042-01 *4-380-340-01 *4-384-027-01	CUSHION (LOWER) (ASSY) (KV-E2921)  BAG, PROTECTION (KV-E2521D ONLY)  BAG, PROTECTION (KV-E2921D ONLY)	
		i

#### REMOTE COMMANDER

1-465-797-11 COMMANDER, REMOTE (RM-817) 4-031-670-11 COVER, POCKET (FOR RM-817)